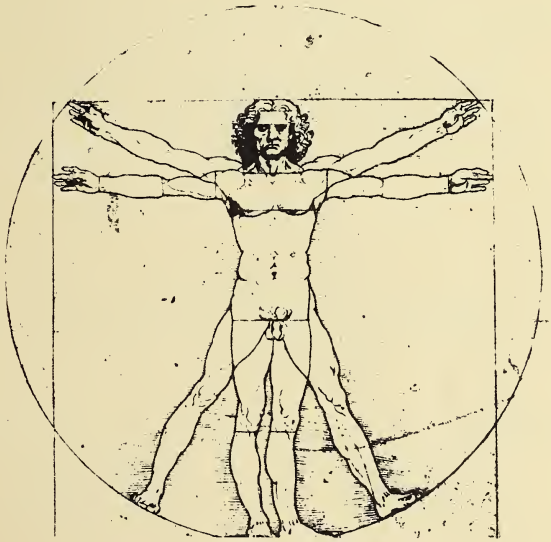
S
628.53
H2u
1979

MONTANA AIR POLLUTION STUDY

Update and Improvement of the Emission Inventory
November, 1979



STATE DOCUMENTS COLLECTION
DEC 3 1 1979
MONTANA STATE LIBRARY
930 E Lyndale Ave.
Helena, Montana 59601

AIR QUALITY BUREAU
ENVIRONMENTAL SCIENCES DIVISION
DEPARTMENT OF HEALTH & ENVIRONMENTAL SCIENCES
HELENA, MONTANA 59601

PLEASE RETURN

MAY 19'80

MONTANA STATE LIBRARY
S 628.53 H2u c.1
Update and improvement of the emission i
3 0864 00028580 2

THOMAS L. JUDGE
GOVERNOR

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES

A. C. KNIGHT, M.D.
DIRECTOR

PROJECT MANAGER
MICHAEL D. ROACH, P.E.

PROJECT OFFICERS

Dennis Haddow, Health Effects (Mortality)
Kit Johnson, M.D., Health Effects (Morbidity)
David Maughan, Air Monitoring
James Gelhaus, Meteorology/Modeling
Robert Raisch, Emission Inventory
Harold Robbins, Statistical Analysis
Daniel Vichorek, Technical Writer

STAFF

Administration

David Lynn, Technical Manager
Stephen Medvec, Project Coordinator
Maureen Stohl

Health Effects

William Gemar
Stephanie Kemmis
Linda Kittell
Theresa Manchester
Marge Noyd
Lana O'Tremba
James Payne
Gloria Renney
Marlene Simms
Betty Wing

Air Monitoring

Steven Campbell
Linda Chapman
Patrick Driscoll
Mary Dunbar
James Glenn
Curtis Hesla
Harry Howell
Gary Mason
Ben Myren
Daryl Tulberg

Meteorology/Modeling

William Campbell
Paulette Habets
Steven Harner
Michael Machler
Terri Middlemist
Thomas Stewart
Larry Zimmerman

Systems Design/Statistical Analysis

Rudy Gideon
David Orndoff
Richard Schwaller
Patricia Shevalier
Georgia Sninn
Danielle Tibbetts

Front Cover illustration is based on a drawing by Leonardo da Vinci that has come to symbolize human health.

UPDATE AND IMPROVEMENT OF THE EMISSION INVENTORY FOR MAPS STUDY AREAS

BY

Russel Bohn
Dr. Chatten Cowherd
Dr. Ralph Keller
Robert Raisch

and

Michael D. Roach

MONTANA AIR POLLUTION STUDY

AIR QUALITY BUREAU
Department of Health and Environmental Sciences
Helena, Montana 59601

November, 1979

FOREWORD

This is one of a series of technical reports presenting results from the Montana Air Pollution Study (MAPS), a special air monitoring and health effects project of the Air Quality Bureau, Montana Department of Health and Environmental Sciences. The 1977 Montana Legislature provided the MAPS project with $1.07 million for the 1977-1979 biennium to improve understanding of how air pollution affects health in Montana.

The various MAPS activities have been grouped into five major categories for purposes of project management: Health Effects, Air Quality, Meteorology/ Modeling, Emission Inventory, and Statistics and Data Systems. Results from each of these technical areas are to be presented in a series of reports prepared by the personnel directly involved in each category of MAPS. There will also be a technical summary report and a report to the public in layman's language.

PREFACE

This report discusses the technical approach, results, and conclusions of the "Update and Improvement of the Emission Inventory for the MAPS Study Areas." Although data summaries are included in this report, the complete set of emission factors, source extent data, and emission estimates is contained in a supplemental report. Identical information soon will be provided on a magnetic tape. The study was conducted by Midwest Research Institute (MRI) of Kansas City, Missouri, under the terms of the Department of Health and Environmental Sciences' contract #80329-0638.

The report is presented here as it was written by Mr. Russel Bohn, Dr. Chatten Cowherd, and Dr. Ralph Keller. Robert Raisch served as Air Quality Bureau liaison to the MRI personnel for this study. The Department of Health and Environmental Sciences has not altered this report in any fashion, except to reprint it under the MAPS cover.

UPDATE AND IMPROVEMENT OF THE EMISSION INVENTORY FOR MAPS STUDY AREAS

by

Russel Bohn

Air Quality Assessment Section
Environmental and Materials Sciences Division
Midwest Research Institute

FINAL REPORT

August 17, 1979

MRI Project No. 4527-L

Prepared for

Air Quality Bureau
Department of Health and Environmental Sciences
State of Montana
Cogswell Building
Helena, Montana 59601

Attn: Mr. Robert Raisch
Project Officer

Digitized by the Internet Archive
in 2016

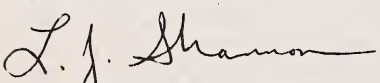
https://archive.org/details/updateimprovemen1979mont

PREFACE

This Final Report was prepared for the Air Quality Bureau of the State of Montana (Mr. Robert Raisch, Project Officer) to summarize work completed during Phases I and II of the contract. The work was performed in the Environmental and Materials Sciences Division of Midwest Research Institute under the supervision of Dr. Chatten Cowherd, Head, Air Quality Assessment Section. This report was written by Mr. Russel Bohn. He was assisted by Dr. Cowherd and Dr. Ralph Keller.

Approved for:

MIDWEST RESEARCH INSTITUTE



L. J. Shannon, Director
Environmental and Materials
Sciences Division

August 17, 1979

CONTENTS

	Page
Preface	iii
Figures	v
Tables	v
1.0 Introduction	1
2.0 Technical Approach	2
2.1 Task 1 - Identify Sources	2
2.2 Task 2 - Determine Emission Factors for Criteria Pollutants	2
2.3 Task 3 - Determine Emission Factors for Noncriteria Pollutants	7
2.4 Task 4 - Collect and Analyze Source Extent Data	8
2.5 Task 5 - Compile Emissions Inventory	8
3.0 Identification of Sources	9
3.1 Point sources	9
3.2 Area sources	9
4.0 Emission Factors for Criteria Pollutants	17
4.1 Point sources	17
4.2 Area sources	17
4.3 Fugitive dust sources	18
5.0 Emission Factors for Noncriteria Pollutants	24
5.1 Point sources	24
5.2 Area sources	27
5.3 Fugitive dust sources	29
6.0 Source Extent Data	31
6.1 Point sources	31
6.2 Area sources	32
6.3 Fugitive dust sources	35
7.0 Emissions Inventory	40
References	98
Appendices	
A. Degree of effort	A-1
B. Metals analysis of silt sized samples	B-1

FIGURES

Number		Page
1	Phase I work flow diagram	3
2	Phase II work flow diagram	4
3	Emission inventory flow diagram	41

TABLES

Number		Page
1	Source Categories	5
2	Pollutants Inventoried	6
3	Summary of Laboratory Data for Field Samples of Open Dust Source Materials	12
4	Fugitive Dust Emission Factors Experimentally Determined by MRI	19
5	Primary Information Sources for Point Source Metals Emission Factors	26
6	Primary Information Sources for Point Source Sulfur Compound Emission Factors	28
7	Input Data Files	42
8	Emissions Inventory Output	42
9	Total Emissions of Designated Area (Location: Butte)	44
10	Total Emissions of Designated Area (Location: Berkeley Pit)	46
11	Total Emissions of Designated Area (Location: Anaconda)	48
12	Total Emissions of Designated Area (Location: Missoula)	50
13	Total Emissions of Designated Area (Location: Billings)	52
14	Total Emissions of Designated Area (Location: Silver Bow County)	54
15	Total Emissions of Designated Area (Location: Deer Lodge County)	56
16	Total Emissions of Designated Area (Location: Missoula County)	58
17	Total Emissions of Designated Area (Location: Yellowstone County)	60

TABLES (concluded)

Number		Page
18	Total Emissions (Tons) in Missoula	62
19	Total Emissions in Grid 383/5095 (Location: Butte)	82
20	Total Emissions in Grid 383/5095 (Location: Berkeley Pit) . .	84
21	Total Emissions in Grid 352/5108 (Location: Anaconda)	86
22	Total Emissions in Grid 727/5192 (Location: Missoula)	88
23	Total Emissions in Grid 728/5192 (Location: Missoula)	90
24	Total Emissions in Grid 728/5195 (Location: Missoula)	92
25	Total Emissions in Grid 272/5195 (Location: Missoula)	94
26	Total Emissions in Grid 693/5074 (Location: Billings)	96

SECTION 1.0

INTRODUCTION

The overall objective of this study was to update and improve the point and area source air pollution emission inventories for the Montana Air Pollution Study (MAPS) areas of Silver Bow, Deer Lodge, Missoula, and Yellowstone Counties. The MAPS emission inventory study was divided into two phases. Phase I consisted of developing the best available emission factors for the air pollution sources present in the study areas, and Phase II consisted of developing a high resolution monthly emission inventory for the four study areas.

The following sections of this report discuss (a) the overall technical approach, (b) identification of air pollution sources, (c) development of emission factors for criteria pollutants, (d) development of emission factors for noncriteria pollutants, (e) collection and analysis of source extent data, and (f) compilation of the emission inventory.

SECTION 2.0

TECHNICAL APPROACH

Work flow diagrams for the two phases of the MAPS emission inventory study are presented in Figures 1 and 2. A brief description of each task follows.

2.1 TASK 1 - IDENTIFY SOURCES

The purpose of this task was to identify and locate major point and area sources of air pollution within the four MAPS study areas. Midwest Research Institute (MRI) relied on the existing Montana Air Quality Bureau (AQB) Point Source Emission Inventory as the basis for locating all major point source emitting facilities. For identifying area sources, MRI relied on site surveys performed by the study team, land use maps, the Montana AQB Area Source Emission Inventory and other sources of information recommended by the MAPS project officer and local control agency personnel. A listing of the major point and area sources of concern in the study areas is presented in Table 1.

2.2 TASK 2 - DETERMINE EMISSION FACTORS FOR CRITERIA POLLUTANTS

This task involved determining the best available emission factors for the various point and area sources of criteria pollutants (see Table 2) within the four study areas.

PHASE I - DETERMINE EMISSION FACTORS

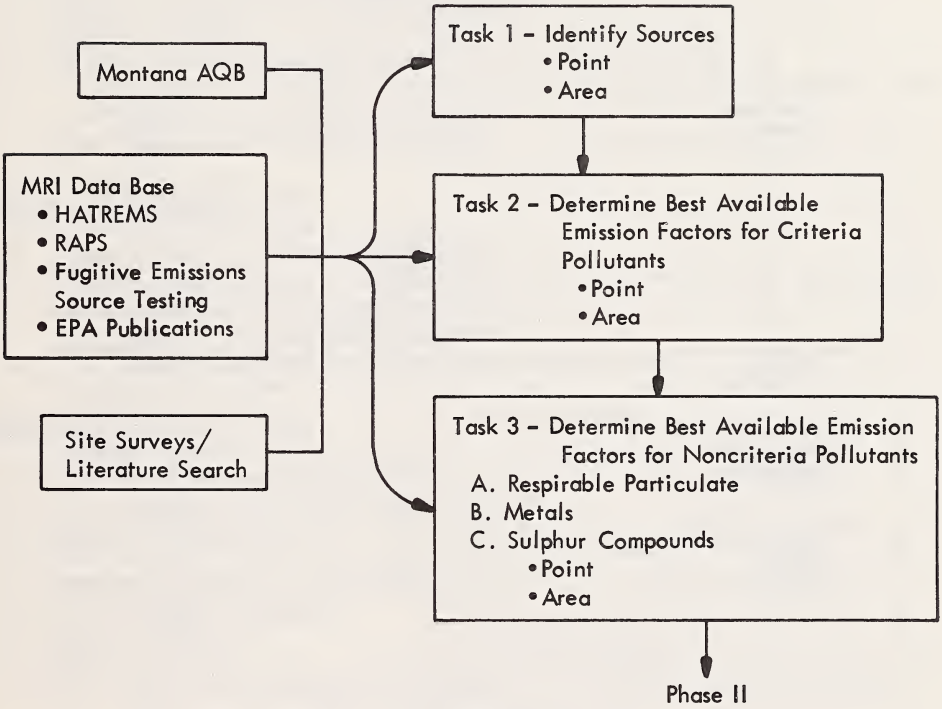


Figure 1. Phase I work flow diagram.

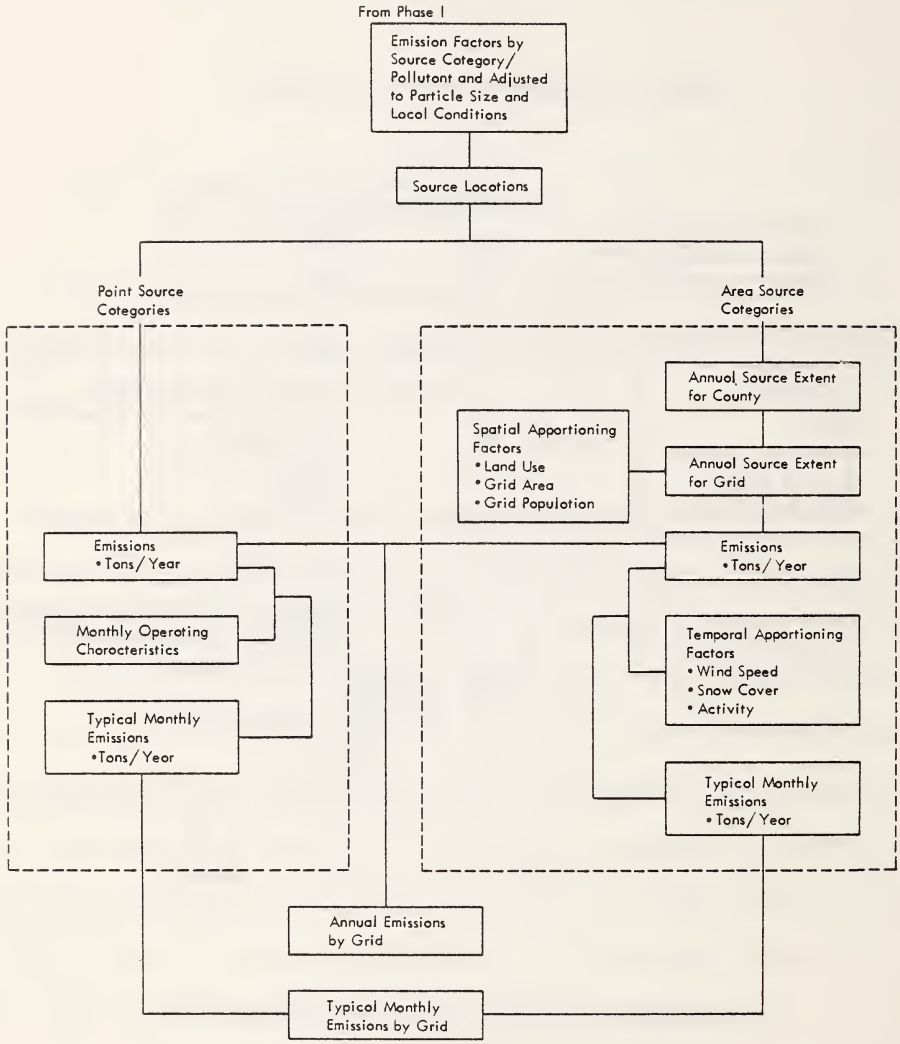


Figure 2. Phase II work flow diagram.

Table 1. SOURCE CATEGORIES

Butte (Silverbow County)

1. Open pit copper mine fugitive emissions
2. Diesel engine emissions (80 trucks)
3. Elemental phosphorus production (one plant)
4. Asphalt batching
5. Conical wood waste burner (one)
6. All area source categories contained in the EIS system with emphasis on:
   a. Unpaved road fugitive emissions
   b. Paved road fugitive emissions

Anaconda (Deer Lodge County)

1. Primary copper smelter (one smelter)
2. All area source categories contained in the EIS system with emphasis on:
   a. Tailings pond fugitive emissions
   b. Unpaved road fugitive emissions
   c. Paved road fugitive emissions

Missoula (Missoula County)

1. Plywood production (two plants)
2. Particleboard production (one plant)
3. Sawmills (four mills)
4. Door and sash production (one plant)
5. Kraft pulp production (one plant)
6. Hog fuel boilers (seven)
7. Asphalt batching
8. All area source categories contained in the EIS system with emphasis on:
   a. Unpaved road fugitive emissions
   b. Paved road fugitive emissions
   c. Fireplace and stove wood burning emissions
   d. Forestry slash burning emissions

Billings (Yellowstone County)

1. Oil refineries (three plants)
2. Sugar refinery (one plant)
3. Coal-fired electrical generating plant (one plant)
4. Elemental sulphur production (one plant)
5. All area source categories contained in the EIS system with emphasis on:
   a. Unpaved road fugitive emissions
   b. Paved road fugitive emissions

Table 2. POLLUTANTS INVENTORIED

Criteria pollutants:	Total Suspended Particulate (TSP)
	Sulfur dioxide (SO_2)
	Hydrocarbons (HC)
	Nitrogen oxides (NO_x)
	Carbon monoxide (CO)
	Lead (Pb)
Noncriteria pollutants:	Respirable Particulate[a/] (RSP)
	Metals:
	Arsenic
	Cadmium (Cd)
	Vanadium (V)
	Copper (Cu)
	Iron (Fe)
	Aluminum (Al)
	Zinc (Zn)
	Sulfur compounds:
	Sulfates ($SO_4^=$)
	Hydrogen sulfide (H_2S)
	Sulfuric acid (H_2SO_4)

a/ Particles smaller than 3.5 μm.

MRI relied heavily on the existing Montana AQB Point Source Emission Inventory for point source emission factors. Special effort was placed on determining the best available emission factors for the wood products, mineral products, primary metals, and petroleum industries.

The determination of the best available area source emission factors for fugitive dust sources, forestry slash burning, stove and fireplace wood burning, and surface mining operations required extensive effort. MRI has experimentally developed predictive emission factor equations which are applicable to certain fugitive dust sources and surface mining operations. To the extent possible, these predictive emission factors were corrected to monthly Montana source conditions. Emission factors for other area sources were obtained through a literature search.

Appendix A identifies the degree of effort which the Montana AQB believed MRI should put forth in identifying the best available criteria pollutant emission factors. MRI used Appendix A as a guideline in this study.

2.3 TASK 3 - DETERMINE EMISSION FACTORS FOR NONCRITERIA POLLUTANTS

This task involved determining the best available emission factors for the various point and area sources of noncriteria pollutants within the four study areas. These noncriteria pollutants are specified in Table 2. A literature search of both MRI in-house documents and other publications was utilized in identifying and evaluating the noncriteria pollutant emission factors. Appendix A was used as a guideline for the degree of effort expended to locate appropriate emission factors.

2.4 TASK 4 - COLLECT AND ANALYZE SOURCE EXTENT DATA

This task involved obtaining source extent information for the point and area sources found in the four study areas. The four county areas were each divided into two grid sizes. Urban areas (Butte, Anaconda, Missoula, and Billings) were divided into 1-km square grids. Nonurban areas were divided into 25-km square grids. All grids were developed from the Universal Transverse Mercator (UTM) coordinate system.

Source extent information was obtained from the files of the Montana AQB, U.S. Government Census Reports, other literature sources, and from industry. The source extent data were apportioned both spatially (over the grid areas) and temporally (monthly).

2.5 TASK 5 - COMPILE EMISSIONS INVENTORY

This task involved the computation of source emissions from the previously determined emission factor and source extent information. Emissions were determined on a monthly basis. Totals were obtained for all grids encompassing the study cities and counties. The emission contributions from point, area, and fugitive dust sources were assessed in each of the four study areas.

SECTION 3.0

IDENTIFICATION OF SOURCES

3.1 POINT SOURCES

The 1975 and 1978 Montana AQB Point Source Emission Inventories were the primary tools used in identifying and locating point sources of air pollution within the study areas. These inventories were reviewed for data gaps, which were discussed with the project officer. Each point source was identified by National Emissions Data System (NEDS) Source Classification Code (SCC) and source description. This was done to become familiar with the types of sources within each study area and to facilitate the retrieval of information from the Environmental Protection Agency (EPA) Fine Particle Emission Inventory System (FPEIS).

On September 6, 1978, a site survey of the Anaconda smelter was performed by Russel Bohn (MRI) and Robert Raisch (AQB). During this survey, major emission points were identified and questions pertaining to emission factors and source extent were discussed with the operations personnel.

3.2 AREA SOURCES

Area sources of air pollution were identified through (a) field surveys, (b) the 1975 Montana AQB Area Source Emission Inventory, and (c) discussions with the project officer and local air pollution agency personnel.

A field survey of the Butte-Anaconda area was conducted during the period from April 3 to 7, 1978. Russel Bohn and Chatten Cowherd of MRI and Robert Raisch of the Montana AQB performed the survey. Samples of surface materials from various fugitive emission sources were collected for subsequent silt, moisture, and metals content determination. Source materials sampled included: (a) surface loading from paved and unpaved roadways; (b) aggregate materials from various locations in the Berkeley Pit; and (c) aggregate materials from Anaconda smelter tailings disposal sites.

A field survey of the Missoula area was conducted during the period from April 17 to 19, 1978. Russel Bohn and Christine Maxwell of MRI and Jim Carlson of the Missoula County Health Department performed the survey. Samples of surface loadings from paved and unpaved roadways were collected during the survey. In addition, other air pollution information (maps, previous studies, etc.) were obtained from the local control agency.

A field survey of the Billings area was conducted during the period from May 1 to 3, 1978, by Russel Bohn of MRI, Robert Raisch of the Montana AQB, and Steve Duganz of Yellowstone County Air Pollution Control. Samples of surface materials from various fugitive emission sources were collected to be analyzed for silt, moisture, and metals content. Source materials collected included: (a) paved roadway loadings; (b) unpaved roadway surface materials; and (c) aggregate materials.

Table 3 summarizes the results of the three field surveys. Forty-six samples were collected, and each sample was analyzed for silt content, and the following metals: lead (Pb), arsenic (As), cadmium (Cd), vanadium (V), copper (Cu), iron (Fe), aluminum (Al), and zinc (Zn). In addition, particulate loading was calculated for the paved roadway samples (travel lanes, parking lanes, and curb areas), and moisture content was determined for selected samples.

Table 3. SUMMARY OF LABORATORY DATA FOR FIELD SAMPLES OF OPEN DUST SOURCE MATERIALS

Sample No.	Material	Silt Content (%)	Paved Roadway Surface Loading (lb/road mile)	Metals Content of Silt Sized Material (μg/g)[a] Pb	As	Cd	V	Cu	Fe	Al	Zn
Butte-Anaconda											
1	Blasted rock - Berkeley pit	1.7	-	379	756	114	140	8,360	54,300	109,000	3,580
2	Alluvium - Berkeley pit	6.0	-	1,620	1,730	26.4	152	8,520	17,100	69,300	8,056
3	Haul road to leach dump	5.9	-	805	123	35.2	241	4,590	43,000	86,800	4,780
4	Lead bed - exposed area	7.8	-	183[b]	151[b]	8.21[b]	17.4[b]	1,900[b]	77,300[b]	4,170[b]	1,450[b]
5	Hillcrest waste dump - exposed area	5.0	-	439[b]	49.1[b]	8.42[b]	32.9[b]	3,090[b]	34,400[b]	11,000[b]	2,800[b]
6	Haul road	5.8	-	780	111	16.4	145	5,290	27,200	95,700	2,750
7	Limerock covering on tailings - Anaconda smelter	9.3	-	329	146	25.2	47.6	4,460	29,800	23,800	2,670
8	Coarse smelter slag	3.7	-	2,750	2,150	66.1	132	37,477	250,000	33,100	23,600
9	Fine smelter slag	1.5	-	3,829[b]	1,120[b]	33.2[b]	188[b]	30,800[b]	278,000[b]	20,000[b]	28,700[b]
10	Tailings - lower area	14.8	-	330	89.6	4.25	47.2	1,060	28,100	49,900	698
11	Tailings - upper area	9.6	-	543	239	9.55	43.4	3,580	107,000	11,300	1,960
12	Browns Gulch Road - rural unpaved road	6.8	-	162	17.9	7.01	100	289	34,100	80,200	288
13	Meadowlark Lane - residential unpaved road - Butte	8.4	-	69.7	37.2	2.98	149	416	24,400	75,300	246

Table 3. (Continued)

Sample No.	Material	Silt Content (%)	Paved Roadway Surface Loading (lb/road mile)	Metals Content of Silt Sized Material (μg/g)[2/]							
				Pb	As	Cd	V	Cu	Fe	Al	Zn
14	Residential paved roadway - curb area near AQB monitoring site/park - Butte	9.7	13,534	865	55.8	14.3	139	1,500	33,100	55,800	1,813
15	Residential paved road - travel lanes - near AQB monitoring site/park - Butte	10.6	8,244	754	37.7	7.55	189	1,160	20,200	57,200	1,270
16	Harrison Ave. - curb area	11.3	18,299	762	56.6	16.1	270	826	44,600	56,400	3,980
17	Harrison Ave. - travel lanes	5.0	1,629	1,420	36.7	5.53	609	1,390	47,200	53,200	4,880
18	Greely School - paved road - curb area	5.7	9,246	189	14.8	6.92	173	714	32,600	69,200	452
19	Greely School - paved road - travel lanes	7.0	52,535	145	10.3	1.79	134	958	21,600	60,900	281
20	Montana St. - paved road - crub area	8.4	978	1,620	23.8	8.66	1,160	1,580	63,500	51,900	1,620
21	Montant St. - paved road - travel lanes	6.6	522	1,080	11.4	3.48	414	873	22,500	45,000	1,150
Missoula											
22	Schilling St. - residential unpaved road	9.1	-	27.6	2.5	1.0	99	100	19,200	55,700	41.9
23	Blue River Road - rural unpaved road	9.6	-	33.9	2.5	1.0	98	194	14,000	51,200	62.3

Table 3. (Continued)

Sample No.	Material	Silt Content (%)	Paved Roadway Surface Loading (lb/road mile)	Metals Content of Silt Sized Material ($\mu g/g$)[a/]							
				Pb	As	Cd	V	Cu	Fe	Al	Zn
24	Bancroft St. - paved roadway - parking area	21.1	11,768	947	2.46	3.63	81	109	21,900	45,100	203
25	Bancroft St. - paved road - travel lanes near Lions Park	33.9	1,061	1,040	2.32	3.46	98	272	21,000	43,700	208
26	6th St. - paved road - parking area	62.6	1,572	724	12.9	4.23	< 94	107	21,100	44,100	213
27	6th St. - paved road - travel lanes	26.0	256	606	1.96	5.39	98	1,950	17,800	39,400	460
28	Highway 93 - paved road - travel lanes	55.9	147	968	2.89	6.78	90	334	20,500	44,000	254
29	Highway 93 - paved road - curb area	17.7	2,442	1,150	2.66	5.97	92	93.2	21,900	46,400	243
30	Walnut St. - residential - paved road - travel lanes	13.3	250	516	2.15	7.79	< 92	1,020	21,800	43,000	330
31	Walnut St. - residential - paved road - curb area	18.9	8,253	438	2.40	3.29	< 94	319	20,100	42,500	194
32	6th St. - paved road - curb area	19.7	13,337	570	3.6	1.0	90	81.8	19,800	46,900	186
Billings											
33	Yellowstone St. - residential paved road - travel lanes	14.3	124	830	2.96	7.06	94	528	28,300	58,200	301

Table 3. (Continued)

Sample No.	Material	Silt Content (%)	Paved Roadway Surface Loading (lb/road mile)	Metals Content of Silt Sized Material (μg/g)[a] Pb	As	Cd	V	Cu	Fe	Al	Zn
34	Yellowstone St. - residential paved road - parking lanes	13.2	213	819	3.22	3.86	96	325	31,200	53,900	258
35	Grand Ave. - paved road - south curb area	25.0	5,028	554	4.15	0.96	97	127	26,400	55,600	188
36	Grand Ave. - paved road - south travel lanes	28.8	120	731	2.57	6.05	140	159	31,200	54,700	198
37	Grand Ave. - paved road - north curb area	17.5	8,552	707	2.31	2.02	152	190	29,100	58,100	222
38	Grand Ave. - paved road - north travel lanes	9.4	803	2,350	2.49	2.61	87	140	33,300	56,300	188
39	Rural paved road - travel lane	18.5	121	160	2.64	4.03	101	1,180	19,800	48,900	2.95
40	4th Ave. East - paved road - travel lanes	7.7	4,236	334	3.9	1.0	97	154	28,000	59,400	163
41	4th Ave. East - paved road - curb area	12.8	14,159	477	3.39	4.06	102	174	29,300	56,700	255
42	Exxon Refinery - fluid coke storage pile	0.8	-	7.0	1.4	1.8	99	363	96	237	69.5
43	Agricultural field - top soil	14.8	-	33.2	4.92	0.99	50	248	27,400	68,200	136
44	Kathy and Laurie Lanes - residential unpaved roads	4.8	-	88	2.29	0.96	96	153	21,900	61,600	82.7

Table 3. (Continued)

Sample No.	Material	Silt Content (%)	Paved Roadway Surface Loading (lb/road mile)	Metals Content of Silt Sized Material (μg/g)[a/]							
				Pb	As	Cd	V	Cu	Fe	Al	Zn
45	Rural gravel unpaved road	1.9	-	36.1	1.49	0.45	87	249	30,500	76,200	88.4
46	Rural dirt unpaved road	8.0	-	24	4.21	3.37	96	237	20,300	54,100	102

a/ Sample analysis by total digestion with hydrofluoric acid - flame atomic absorption.

b/ Nitric acid extraction analysis, rather than total digestion with hydrofluoric acid.

SECTION 4.0

EMISSION FACTORS FOR CRITERIA POLLUTANTS

Emission factors for point sources, area sources, and fugitive dust sources of air poilution were determined for the following six criteria pollutants: total suspended particulates (TSP), sulfur dioxide (SO_2), hydrocarbons (HC), nitrogen oxides (NO_x), carbon monoxide (CO), and lead (Pb).

4.1 POINT SOURCES

The primary sources of information used in determining point source emission factors for the study areas were the 1975 and 1978 Montana AQB Point Source Emission Inventories. The 1978 inventory was developed by AQB as part of their 1979 State Implementation Plan (SIP) revision. No changes to these emission factors were made by MRI.

4.2 AREA SOURCES

A number of data sources were used in locating area source emission factors for criteria pollutants including EPA Publication No. AP-42, "Compilation of Air Pollutant Emission Factors;" the 1975 Montana AQB Area Source Emission Inventory; literature searches; and discussions with EPA personnel in North Carolina. The majority of the emission factor data were obtained from EPA Publication No. AP-42. Information on wood burning (forest wildfires, slash burning, and household usage) was obtained from research performed in the northwestern United States and in Missoula, Montana.

4.3 FUGITIVE DUST SOURCES

The most extensive effort in determining emission factors was allocated to fugitive dust sources. MRI has experimentally derived predictive emission factor equations for numerous fugitive dust sources (Table 4). These emission factor equations are dependent on the characteristics of the emitting surface and the climate of an area.

As described in Section 3.2, field surveys of the MAPS study areas were performed to collect sample surface materials from fugitive dust sources. The 46 samples collected were analyzed for silt and moisture characteristics for use in the emission factor equations. Although samples were collected during the spring season, climatic corrections were made in most cases to adjust the emission factors to typical monthly or seasonal conditions. This temporal adjustment to the emission factors is explained in the following subsections.

4.3.1 Paved Roadways

Samples of dust loading from paved roadways were collected in the spring season for Butte, Missoula, and Billings (Table 3). Anaconda roadways were assumed by MRI to have surface dust characteristics similar to those in Butte. These samples were analyzed for total loading, silt content, and metals content.

Table 4. FUGITIVE DUST EMISSION FACTORS EXPERIMENTALLY DETERMINED BY MRI

Source category	Measure of extent	Emission factor[a] (lb/unit of source extent)	Correction parameters
1. Unpaved Roads	Vehicle - Miles Traveled	$5.9 \left(\frac{s}{12}\right)\left(\frac{S}{30}\right)\left(\frac{W}{3}\right)^{0.8}\left(\frac{d}{365}\right)$	s = Material Silt Content (%)
2. Paved Roads	Vehicle - Miles Traveled	$0.45 \left(\frac{4}{n}\right)\left(\frac{s}{10}\right)\left(\frac{L}{5{,}000}\right)\left(\frac{W}{3}\right)^{0.8}$	S = Average Vehicle Speed (mph)
3. Batch Load-In (e.g., front-end loader, railcar dump)	Tons of Material Loaded In	$0.0018 \frac{\left(\frac{s}{5}\right)\left(\frac{U}{5}\right)}{\left(\frac{M}{2}\right)^2\left(\frac{Y}{6}\right)}$	W = Vehicle Weight (tons)
4. Continuous Load-In (e.g., stacker, transfer station)	Tons of Material Loaded In	$0.0018 \frac{\left(\frac{s}{5}\right)\left(\frac{U}{5}\right)}{\left(\frac{M}{2}\right)^2}$	L = Surface Dust Loading on Traveled Portion of Road (lb/mile)
5. Storage Pile Maintenance and Traffic	Tons of Material Throughput	$0.10\ K \left(\frac{s}{1.5}\right)\left(\frac{d}{235}\right)$	n = Number of Travel Lanes
6. Storage Pile Wind Erosion	Tons of Material Throughput	$0.05 \left(\frac{s}{1.5}\right)\left(\frac{d}{235}\right)\left(\frac{f}{15}\right)\left(\frac{D}{90}\right)$	U = Mean Wind Speed (mph)
7. Batch Load-Out	Tons of Material Loaded out	$0.0018 \frac{\left(\frac{s}{5}\right)\left(\frac{U}{5}\right)}{\left(\frac{M}{2}\right)^2\left(\frac{Y}{6}\right)}$	M = Material Surface Moisture Content (%)
8. Wind Erosion of Exposed Areas	Acre-Years of Exposed Land	$3{,}400 \frac{\left(\frac{e}{50}\right)\left(\frac{s}{15}\right)\left(\frac{f}{25}\right)}{\left(\frac{P-E}{50}\right)^2}$	Y = Dumping Device Capacity (yd^3)
			K = Activity Correction
			d = Number of Dry Days per Year
			f = Percentage of Time Wind Speed Exceeds 12 mph
			D = Duration of Material Storage (days)
			e = Surface Erodibility (tons/acre/year)
			P - E = Thornthwaites Precipitation-Evaporation Index

a/ Annual average emissions of dust particles smaller than 30 μm in diameter based on particle density of 2.5 g/cm^3.

From the field-collected data, along with field estimates of vehicle traveling weights, emission factors specific to the spring season were calculated. Adjustments were made to the amount of surface loading on the roadways in order to derive seasonal emission factors. The silt and metals contents of the surface loading were assumed to be constant over the annual period. Although it is likely that changes in these values can occur, little is known as to the extent these parameters change seasonally.

The highest loading values appear to be associated with spring, due to the accumulation of antiskid materials placed on the road surface during the winter and the increased precipitation events known to increase surface loading.[1/] Precipitation events cause increased surface loading because of carry-on of soil by vehicles from unpaved areas or highly loaded curb areas to the travel lanes.

Surface loadings in the summer decrease as a result of spring road-cleaning efforts and reduced precipitation events. In the fall, loadings increase due to the increased frequency of precipitation events. During the winter, loadings increase because of the addition of roadway antiskid materials.

Although road surfaces in the winter may be periodically snowpacked resulting in negligible emissions for these time periods, the emission factor does not directly account for this "natural" control efficiency. After the roads are cleared and dried, it has been observed that for a few days emissions are many times higher than normal for the season. Once the antiskid and carry-on materials creating the relatively high surface loadings are

reentrained by vehicles, surface loading decreases to the normal value for the season. Thus, it is assumed that days with negligible emissions resulting from precipitation events or snow cover are offset by subsequent dry conditions with abnormally high emissions.

The following percent reductions from the spring season surface loading values were used to derive seasonal emission factors: summer - 50% fall - 30% and winter - 10% Samples collected in the spring from a few roadways appeared to have abnormally high loadings relative to the other roadways sampled. For these roadways (Butte sample Nos. 15 and 17; Billings sample No. 40), the loadings were adjusted sharply downwind to reflect the spring-summer roadway cleaning efforts and were increased in the fall and winter. The approximate percent reductions used for these samples were:

Summer No. 15 - 75%
No. 17 - 75%
No. 40 - 90%

Fall No. 15 - 65%
No. 17 - 50%
No. 40 - 75%

Winter No. 15 - 25%
No. 17 - 25%
No. 40 - 30%

4.3.2 Unpaved Roadways

Samples of loose surface aggregate from unpaved roadways were collected in the spring season for Butte, Missoula, and Billings. Anaconda roadways

were assumed to have dust characteristics similar to those of Butte. Samples were analyzed for silt and metals content. From these data, along with field estimates of vehicle traveling speeds and weights, emission factors were determined for dry conditions.

To account for natural dust control from precipitation events, two correction terms were utilized: (a) number of dry days (days with less than 0.01 in. precipitation); and (b) days with 1 or more inches snow cover. Although little work has been performed in assessing the effects of these two natural controls, MRI believes they reasonably account for natural dust mitigation.

The two correction terms were handled in the following manner. First, all days with measurable precipitation or snow cover were identified from U.S. Weather Service data[2/] for the three cities. A day with measurable precipitation or snow cover was assumed to result in negligible unpaved road emissions. Monthly precipitation and snow cover data for 2 years were then seasonally averaged, and the resultant seasonal climatic correction factors were applied to the previously determined dry condition emission factors.

4.3.3 Wind Erosion

Recent study by MRI pertaining to wind erosion has shown that surface crusting caused by precipitation-evaporation events reduces wind erosion measurably.[3/] During the spring field surveys, surface crusting was found to greatly reduce tailings pond emissions at the Anaconda smelter. The agricultural fields near Billings were also observed to have an apparent surface crust. Since the equation used by MRI to estimate exposed area wind erosion was experimentally determined from newly plowed fields, a 90% control efficiency was assumed to account for mitigation effects of surface crusting.

Monthly emission factors were determined for tailings wind erosion in Anaconda. Site specific data pertaining to wind speed, precipitation, and temperature for the months of the year were used to determine seasonal variation.

4.3.4 Berkeley Pit

Samples of loose surface aggregate were obtained from various sources in the Berkeley Pit (Table 3). Fugitive dust emission factors were determined for vehicular traffic, aggregate transfer, wind erosion, and blasting.

Since the major haul roads in the Berkeley Pit are regularly watered to mitigate dust, the climatic correction presented previously for rural roads does not directly apply. To account for seasonal haul road emissions, estimated control efficiencies were provided to MRI by the Anaconda Company.[4] The control efficiencies were: winter - 50%, spring - 90%, summer - 68%, fall - 90%, and annual average - 75%. Other unpaved and paved roadway emission factors were corrected in the manner stated in Sections 4.3.1 and 4.3.2.

The emission factors for shovel loading and truck dumping were not corrected seasonally because it is not known how moisture seasonally varies in the transferred aggregate materials.

The emission factors for wind erosion of waste dumps and leach beds were corrected in the manner stated in Section 4.3.3. The emission factor determined for blasting was averaged from three data sources.[5] Because of the difficulty researchers have had in quantifying blasting emissions, the emission factor is considered only approximate.

SECTION 5.0

EMISSION FACTORS FOR NONCRITERIA POLLUTANTS

Emission factors for point sources, area sources, and fugitive dust sources of air pollution were determined for the following noncriteria pollutants: (a) respirable particulate (particles smaller than 3.5 μm); (b) metals (arsenic, cadmium, vanadium, copper, iron, aluminum, and zinc); and (c) sulfur compounds (sulfates, hydrogen sulfide, and sulfuric acid).

5.1 POINT SOURCES

5.1.1 Respirable Particulates

Respirable particulate data specific to the point sources in the four MAPS study areas were found to be quite limited. Other than assumed values, the only concise source of respirable particulate data was EPA's FPEIS. Although this system will eventually contain the results of all fine particle source testing throughout the United States, it currently lacks data on many source categories[6] and does not contain data specific to the point sources in the study areas.

Estimates were made of the percentage of respirable particulate in the uncontrolled point source TSP emission factors. Many of the sources are combustion-related; thus, it was assumed that 90% of the uncontrolled TSP emissions are in the respirable range. No assumptions as to the respirable fraction of noncombustion sources were made.

5.1.2 Metals

Metals data specific to the point sources found in the four study areas were found to be quite limited. The most extensive data found were related to copper ore mining and processing and copper smelting operations. These operations, located in Silver Bow and Deer Lodge counties, have a relatively large data base. For example, the metals content of the Anaconda smelter main stack emissions is determined regularly and reported monthly to AQB. Table 5 presents the principal sources of information used to identify metal emission factors.

5.1.3 Sulfur Compounds

Sulfur compounds include sulfur dioxide (SO_2), sulfates (SO_4), hydrogen sulfide (H_2S), sulfuric acid (H_2SO_4), and other sulfates soluble in water. In order to determine the sources capable of emitting these compounds, the Montana AQB Point Source Emission Inventory was studied. From the sources listed, a tabulation of sulfur-emitting processes was completed. Several sources of information were used to determine emission factors. These were: (a) computer search of the Air Pollution Technical Information Center (APTIC) abstract services; (b) EPA Publication No. AP-42; (c) literature surveys; (d) recent EPA documents on sulfur emissions; (e) personal communication with EPA personnel; (f) Montana AQB Point and Area Source Emission Inventories; and (g) a report by MRI on the EPA HATREMS Data Base.[7/]

Approximately 50 papers and reports were found in the literature which dealt with sulfur emissions from sources similar to those in the study area. However, no emission factors were obtainable from the literature. Most of

Table 5. PRIMARY INFORMATION SOURCES FOR POINT SOURCE METALS EMISSION FACTORS

- Maxwell, C. et al. Midwest Research Institute. April 1977. Development of HATREMS Data Base and Emission Inventory Evaluation. EPA-450/3-77-011.
- U.S. Environmental Protection Agency, December 1973. Emission Factors for Trace Substances. EPA-450/2-73-001.
- U.S. Environmental Protection Agency, April 1977. Compilation of Air Pollutant Emission Factors (Revised), Office of Air Programs. AP-42. Research Triangle Park, NC.
- Yen, T.F. The Role of Trace Metals in Petroleum. Ann Arbor Science Publishers, Inc., Ann Arbor, Michigan. 1975.
- Communication concerning trace element filter and soil samples from Montana State Department of Health and Environmental Sciences to Dr. Clancy Gordon, University of Montana. June 20, 1977.
- Communication from Mr. Morris W. Bowman of the Anaconda Company to Mr. Fred Gray of Air Quality Bureau, Department of Health and Environmental Sciences, Helena, Montana. February 22, 1978.
- Conner, J. J. and H. T. Shacklette. Background Geochemistry of Some Rocks, Soils, Plants and Vegetables in the Conterminous United States. Geological Survey Professional Paper 574-P, U.S. Government Printing Office, Washington, D.C. 1975.
- A literature search of various government documents and MRI data files also provided some useful project data.
- Telephone inquiries were made to the Washington, D.C. and Denver, Colorado offices of the U.S. Geological Survey in an attempt to acquire data on trace metal content in wood from Montana trees. They reported that no data of this type were developed for Montana.

the data consisted of emission rates (g/sec) with no related information on product throughput or quantity of fuel used. The papers detailing sulfate emissions discussed sulfate formation from SO_2 and SO_3 after exiting the stack. No emission factors for sulfates emitted directly from point sources were found.

The literature reported no emission factors for sulfuric acid or hydrogen sulfide from sources such as those found in the study area.

EPA Publication No. AP-42 and EPA source assessment documents provide emission factors for SO_2 for many sources. Factors for H_2S and mercaptans for the wood pulping industry and sulfuric acid for sulfuric acid plants were available from these documents. No information on sulfate emission factors were found in these reports. Personal communication with John Bachmann of the Strategy and Air Standards Division of EPA indicated that information on sulfates, H_2S, and sulfuric acid emissions does not exist. The primary information sources used to identify emission factors for sulfur compounds are presented in Table 6.

5.2 AREA SOURCES

5.2.1 Respirable Particulate

Respirable particulate data specific to the area sources found in the four study areas were found to be quite limited. For combustion-related sources, the assumption presented in Section 5.1.1 was used to estimate emissions. Data pertaining to the fine particle fraction of wood smoke from home fireplaces and of forest fires were found in the literature.[8,9]

Table 6. PRIMARY INFORMATION SOURCES FOR POINT SOURCE SULFUR COMPOUND EMISSION FACTORS

. Radian Corporation. Revision of Emission Factors for Petroleum Refining, Austin, Texas, PB-275 685, October 1977.

. Air Pollution Technical Information Center, APTIC Search, Computer search of information in the APTIC files.

. U.S. Environmental Protection Agency. April 1977. Compilation of Air Pollutant Emission Factors. AP-42. Research Triangle Park, NC.

. J. B. Homolya. Characterization of Gaseous Emissions From an Oil-Fired Boiler. Unpublished Report.

. Eliassen, A. and J. Saltbonis. Decay and Transformation Rates of SO_2 as Estimated From Emission Data, Trajectories and measured Air Concentrations. Atmospheric Environment. Vol 9, October 1974. pp. 425-429.

. U.S. Environmental Protection Agency. Position Paper on Regulation of Atmospheric Sulfates. EPA-450/2-75-007. 1975.

. U.S. Environmental Protection Agency. Report to Congress on Control of Sulfur Oxides. EPA-450/1-75-001. 1975.

. Personal communication with John Bachmann of Environmental Protection Agency, Strategy and Air Standards Division, Research Triangle Park, North Carolina, April 27, 1978.

5.2.2 Metals

Specific emission factors for metals were found to be quite limited. For combustion-related sources, national average metals contents of fuels were found in the literature. These data were utilized in determining metals emission factors. Metals contents of fuels were found for distillate oil, gasoline, and aircraft fuels.

The metals content of wood, somewhat similar to the species found in Montana, was used to determine metals emission factors for wood combustion.

5.2.3 Sulfur Compounds

Virtually no data were found to estimate emission factors for area source sulfur compounds. The only emission factor identified was for sulfuric acid emissions from catalyst equipped automobiles.

5.3 FUGITIVE DUST SOURCES

5.3.1 Respirable Particulate

Based on MRI's field testing of fugitive dust sources, data exist to determine respirable particulate emission factors. For example, based on source testing results, the respirable fraction (i.e., fraction smaller than 3.5 μm in diameter) of the emissions for the sources listed in Table 4 are: unpaved road travel - 0.31; paved road travel - 0.40; raw materials handling operations - 0.21; and wind erosion - 0.25 (estimate). These fractions were multiplied by the appropriate TSP emission factors to determine respirable particulate emission factors.

5.3.2 Metals

Table 3 presents the results of the metals analysis determined by Montana AQB on the samples collected during the three field surveys. The laboratory procedures for analysis are presented in Appendix B. Of the two analysis methods presented, total digestion of the sample with hydrofluoric acid followed by flame atomic absorption is believed to be the more reliable. These metal contents (fractions) were multiplied by the appropriate TSP emission factors to determine metal emission factors.

5.3.3 Sulfur Compounds

No sulfur compound emission factors were identified for the fugitive dust sources.

SECTION 6.0

SOURCE EXTENT DATA

Source extent data specific to the point, area, and fugitive dust sources found in the study areas were obtained on a temporal (monthly or seasonal) basis. The collected data were spatial apportioned over the grid areas determined for each city and county. To maximize the resolution of the inventory, grids were developed in two sizes. Cities were divided into 1-km square areas and counties were divided in 25-km square areas. Grids were identified by UTM coordinates.

The following sections present the methods used in apportioning the collected source extent data to respective grids and to months of the year.

6.1 POINT SOURCES

The 1978 Montana Point Source Emission Inventory System (EIS) was used to apportion industrial source extent data. For each point source, the EIS provides data as to UTM location, annual process throughout, and seasonal process throughput. For the largest point source in the study areas, the Anaconda smelter, information was obtained from EIS, consultant reports, and contact with operations personnel.

6.2 AREA SOURCES

Numerous sources of information were used to collect and apportion source extent data for area sources. The following sections describe the apportioning methods used for each major area source category.

6.2.1 Residential Fuel

From the Census of Housing,[10] the following information was obtained for the cities and counties: (a) number of dwelling units; and (b) type of fuel used. After the city-county maps were divided into grid areas, estimates were made as to the percentage of residential land use in each grid. This information was then applied to the following relationship:

Equation 1. $$\frac{F \times T}{\Sigma F} = \text{number of residential dwelling units per grid}$$

where F = fraction of residential land use in each grid

T = total dwelling units in city or county

ΣF = sum of fractions in a city or county

Once the total number of dwelling units was determined in each grid, the number of dwelling units using distillate oil and natural gas was determined from Census of Housing information. Estimates as to the number of dwelling units burning wood as a fuel were determined from the Missoula report on wood burning.[8]

From the EPA report, "Guide for Compiling a Comprehensive Emission Inventory,"[11] expressions as to the amount of fuel used per degree-day were applied for distillate oil and natural gas residential dwelling combustion. Average

monthly degree-day values for the study areas were obtained from Weather Service records.[2] Utilizing this information, the total amount of residential fuel used by grid per month was determined.

To determine residential wood usage, it was found that an average residence in Missoula burns 1 ton of wood per year. This usage rate was assumed for all the study areas. The wood burning season was assumed to extend from October through March. The temporal apportioning of the 1 ton of wood per year usage value consisted of assuming that the months of November, December, January, and February each accounted for 20% of the annual value and that October and March accounted for 10% of the annual usage value.

6.2.2 Gasoline Fuel-Exhaust

The unit of source extent required for determining vehicle exhaust emissions is vehicle miles traveled (VMT). This expression of source extent is also used in determining emissions for heavy duty vehicle diesel exhaust and paved and unpaved roadway dust entrainment.

Roadway maps showing average daily traffic (ADT) values were obtained from the Montana State Highway Department[12] and from the Silver Bow County Department of Public Works.[13] From these maps, ADT values for urban and county roadways were developed. For each grid area, miles of paved and unpaved roadways were totaled for the following roadway categories: residential, arterial, industrial, and rural. The total grid miles determined for each roadway category was multiplied by an appropriate grid ADT value to estimate roadway category VMT values for each city and county grid area.

Spatial and temporal apportioning of light duty and heavy duty VMT data was performed according to the following rationale. For each grid, residential paved and unpaved grid VTM were summed as were the grid VMT values for arterial and industrial roads. Estimates were made as to the relative percentage of light duty vehicles (< 3 tons) and heavy duty vehicles (> 3 tons) traveling on each of the grid roadway categories. The following urban vehicle mix was estimated:

Residential - 95% light duty
5% heavy duty

Arterial - 70% light duty
10% heavy duty

Industrial - 30% light duty
35% heavy duty

The calculated annual VMT values were temporally adjusted by the following assumed seasonal travel factors: spring - 25%; summer - 30%; fall - 25%; and winter - 20%.

6.2.3 Diesel Fuel - Exhaust

VMT values were determined in a manner similar to that described in Section 6.2.2. The following urban diesel fueled vehicle mix was estimated: residential - 0%; arterial - 20%; and industrial - 35%.

6.2.4 Evaporation - Gasoline

Source extent data for gasoline evaporation were spatially and temporally apportioned in the following manner. The dollar amount of gasoline sold in 1972 for each city and county was found in the Census of Retail Trade.[14]

These values were converted to gallons by assuming a retail price of 30¢/gal. The total gallons sold in the cities were spatially apportioned by locating grid areas with commercial development (adjoining major highways) and dividing the total gallons equally by the number of identified grid areas. County fuel usage was spatially apportioned uniformly.

Temporal apportioning of gasoline evaporation was performed in a manner similar to that described in Section 6.2.2.

6.2.5 Aircraft - Commercial

Source extent data for commercial aircraft were apportioned in the following manner. The annual landing and take-off (LTO) cycles by aircraft type for each of the main city airports were obtained from Federal Aviation Agency data.[15/] The LTO data were assigned to the grids where airports are located. Monthly source extent was assumed to be equal throughout the year.

6.2.6 Wildfires

Source extent information pertaining to county slash burning was determined as follows. Spatial apportioning of the fire locations were identified from Montana AQB records.[16/] The information was temporally apportioned equally over the prescribed burning months of September, October, and November.

6.3 FUGITIVE DUST SOURCES

Methods of determining source extent data for fugitive dust sources follow. The sources of interest include: (a) paved roadway dust reentrainment; (b) unpaved roadway dust reentrainment; (c) exposed area wind erosion; and (d) surface mining.

6.3.1 Fugitive Dust Source - Paved Roadways

The methods used to determine total residential, arterial, industrial, and rural roadway VMT values were presented in Section 6.2.2. Spatial apportionment of grid VMT by vehicle mix was as follows:

Residential roadways - light duty (3 tons), 95%
medium duty (3 to 30 tons), 5%

Arterial roadways - light duty, 70%
medium duty, 30%

Industrial roadways - industrial vehicles, 100%

Rural roadways - light duty, 70%
medium duty, 30%

Two rural roadway classes were assumed: major rural roads having an ADT of 2,000 and secondary rural roads having an ADT of 500. Rural roads were assumed to have a vehicle mix of 70% light duty and 30% heavy duty vehicles. Temporal apportioning was performed according to Section 6.2.2.

6.3.2 Fugitive Dust Source - Unpaved Roadways

In urban areas, unpaved roadway VMT were apportioned spatially and temporally according to methods presented in Section 6.2.2. Rural roadway VMT was determined by measuring rural unpaved road miles per grid area on county maps. Estimates as to ADT were given for two road types:(1) major rural unpaved roadways having an ADT of 250;and (2) secondary roadways having an ADT of 50. Temporal apportioning was performed according to procedures previously discussed.

6.3.3 Exposed Area Wind Erosion

Only agricultural fields were assessed for nonindustrial exposed area wind erosion. Agricultural activities predominate in Yellowstone County and are found to a much lesser extent in Missoula County. Contact with Yellowstone County Control Agency personnel was made to determine areas in the county where agriculture occurs. From this information, MRI estimated the number of acres of agricultural land in each county grid area. Since wind erosion is minimized by vegetation and snow cover, effective acreage values were determined only for the months of March, April, September, and October.

6.3.4 Fugitive Dust Source - Surface Mining

Source extent information specific to the following source categories were determined for the Berkeley Pit.

6.3.4.1 Unpaved Roads--

There are three basic unpaved road types associated with the Berkeley Pit: haul road; service road; and off-roadway travel. Source extent data were determined from information provided by the Anaconda Company.[17/]

For haul roads, information was provided as to vehicle type, number of trips per year, and average trip length. From this information, MRI determined VMT values for each vehicle class.

For service road and off-roadway travel, information was provided as to vehicle type, gallons of fuel consumed, trip length, and operating hours per year. Since the above data were not provided in total for all vehicle types, MRI made assumptions where needed pertaining to fuel economy, vehicle speed, percentage of time the vehicle was in travel and the percentage of time the

vehicle was traveling on unpaved or paved roadways. From the above information, VMT values for the various vehicle types were determined for unpaved roadway travel.

Estimates as to the travel characteristics of the vehicles were made by MRI in order to apportion spatially the VMT values to specific 1-km square grid areas. The annual values were distributed equally over the 12 months of the year.

6.3.4.2 Paved Roads--

The spatial and temporal apportioning of paved roadway VMT was performed in a manner similar to the previously discussed methods for unpaved roads.

6.3.4.3 Ore/Overburden Handling--

This category includes emissions from shovel loading into trucks and truck dumping of aggregate materials. The Anaconda Company provided information as to the relative monthly amount of ore and overburden removal. Shovel loading operations were apportioned to active pit grid areas. Truck dumps were apportioned to grid areas encompassing the crusher and active waste dumps. Since the operations in the pit do not vary seasonally, annual material throughput values were distributed equally throughout the year.

6.3.4.4 Wind Erosion--

Active waste dumps and leach beds were identified on a map of the pit. The acres found in various grids for these two wind erosion sources were measured from the map. To account for months of the year with no snow cover, the effective wind erosion season was estimated to extend from April through October.

6.3.4.5 Blasting--

The annual total tons of blasted material was obtained from the Anaconda Company. These source extent values were spatially apportioned over the active grid areas in the pit. Monthly source extent was obtained by distributing the annual value equally over the 12 months of the year.

SECTION 7.0

EMISSIONS INVENTORY

The final product of the study is a high resolution monthly emissions inventory of the MAPS study areas. The previous chapters of this report have presented the framework by which the various emission factors and source extent information have been compiled. This chapter presents the results of the monthly emissions inventory.

7.1 INVENTORY COMPILATION

The three main source categories assessed in the emission inventory are point, area, and fugitive dust emission sources. Figure 3 presents a flow diagram for the determination of emissions in the study areas.

The computerized data files presented in Table 7 provided the emission factor and source extent input in the derivation of the emissions inventory. Specific information from the emission inventory can be accessed in a number of ways. Table 8 presents the various forms of the emissions inventory output information.

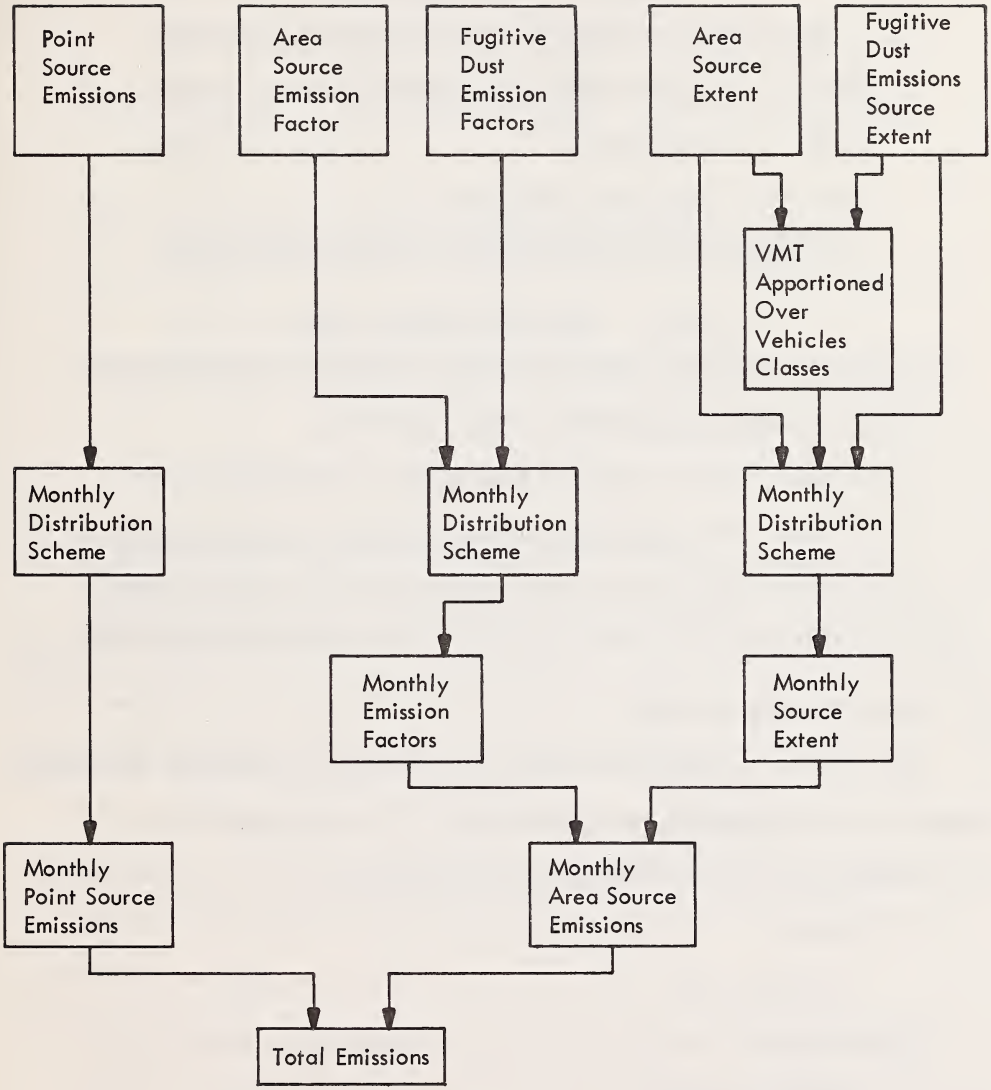


Figure 3. Emission inventory flow diagram.

TABLE 7. INPUT DATA FILES

File 1	Area and Fugitive Dust Source Emission Factors
File 2	Source Extent
File 14	Point Source Emissions

TABLE 8. EMISSIONS INVENTORY OUTPUT

- Total Monthly Emissions Within a Specific Grid
- Total Monthly Emissions Within a Designated (Geographical) Area
- Total Monthly Emissions Within a Designated Area by Source Category
- Total Monthly Emissions of Point Sources Within a Designated Area

7.2 EMISSIONS SUMMARY TABLES

This section presents the results of the emissions inventory. The following forms of the emissions inventory output will be presented:

Total Monthly Emissions Within Designated Areas

- Butte
- Berkeley Pit
- Anaconda
- Missoula (city)
- Billings
- Silverbow County
- Deerlodge County

- Missoula County

- Yellowstone County

Total Monthly Emissions Within a Designated Area by Source Category

- Missoula (city)

Total Monthly Emissions Within a Specific UTM Grid

- Butte - Greely School - Grid 383/5095

- Anaconda - Smelter - Grid 352/5108

- Missoula - Lions Park - Grids 727/5192, 728/5192

  City Center - Grids 728/5195, 272/5195

- Billings - City Center - Grid 693/5074

7.2.1 Total Monthly Emissions Within Designated Areas

Tables 9 to 17 present the total monthly emissions for the various geographical areas under study. Associated with the monthly pollutant emissions values are the relative percentage contributions of the three major source categories (point, area, and fugitive emission sources).

As an example, in many of the geographic areas the fugitive dust emission sources contribute well over 90% of the TSP emissions. Only in Anaconda, where the copper smelter emits a relatively large amount of TSP, does the relative contribution of fugitive dust emissions fall below 90%.

7.2.2 Total Monthly Emissions Within a Designated Area by Source Category

Table 18 presents emissions by each source category for the city of Missoula. Nineteen source categories are presented in this example. The Berkeley Pit, for instance, has over 35 associated source categories.

TABLE 9

TOTAL EMISSIONS OF DESIGNATED AREA
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: SILVERBOW LOCATION: BUTTE

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS) JAN	FEB	MAR	APR	MAY	JUN
TSP	1.1E 04	9.0E 02	9.0E 02	1.5E 03	1.5E 03	1.5E 03	5.3E 02
	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)	(0, 0, 98)	(0, 0, 99)	(0, 0, 99)	(2, 1, 96)
RSP	4.2E 03	3.6E 02	3.6E 02	5.9E 02	5.8E 02	5.8E 02	2.0E 02
	(0, 2, 97)	(0, 2, 97)	(0, 2, 97)	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)	(0, 4, 95)
PB	6.8E 00	5.8E-01	5.8E-01	9.8E-01	9.8E-01	9.8E-01	3.1E-01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
AS	3.2E-01	2.7E-02	2.7E-02	4.6E-02	4.6E-02	4.6E-02	1.5E-02
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CD	6.2E-02	5.3E-03	5.3E-03	9.0E-03	9.0E-03	9.0E-03	2.8E-03
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
V	2.0E 00	1.7E-01	1.7E-01	2.8E-01	2.8E-01	2.8E-01	9.4E-02
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CU	9.7E 00	8.2E-01	8.2E-01	1.4E 00	1.4E 00	1.4E 00	4.4E-01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
FE	2.0E 02	1.6E 01	1.6E 01	2.8E 01	2.8E 01	2.8E 01	9.5E 00
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
AL	9.4E 02	7.9E 01	7.9E 01	1.3E 02	1.3E 02	1.3E 02	4.7E 01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
ZN	1.3E 01	1.1E 00	1.1E 00	1.8E 00	1.8E 00	1.8E 00	5.9E-01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
SO2	1.0E 02	7.9E 00	7.5E 00	8.9E 00	8.3E 00	8.0E 00	9.0E 00
	(0, 96, 3)	(0, 96, 3)	(0, 96, 3)	(0, 96, 3)	(0, 96, 3)	(0, 96, 3)	(0, 96, 3)
H2SO4	2.8E 01	1.9E 00	1.9E 00	2.3E 00	2.3E 00	2.3E 00	2.8E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	9.5E 02	6.5E 01	6.4E 01	8.0E 01	7.9E 01	7.9E 01	9.4E 01
	(0, 97, 1)	(0, 97, 2)	(0, 97, 2)	(0, 97, 1)	(0, 97, 1)	(0, 97, 1)	(0, 98, 1)
NOX	9.9E 02	7.4E 01	7.1E 01	8.6E 01	8.2E 01	8.0E 01	9.2E 01
	(0, 96, 3)	(0, 96, 3)	(0, 95, 4)	(0, 96, 3)	(0, 96, 3)	(0, 96, 3)	(0, 96, 3)
CO	6.6E 03	4.4E 02	4.4E 02	5.5E 02	5.5E 02	5.5E 02	6.6E 02
	(0, 98, 0)	(0, 98, 1)	(0, 98, 1)	(0, 98, 0)	(0, 98, 0)	(0, 98, 0)	(0, 98, 0)

TABLE 9 (continued)

TOTAL EMISSIONS OF DESIGNATED AREA
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: SILVERBOW LOCATION: BUTTE

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS) JUL	AUG	SEP	OCT	NOV	DEC
TSP	1.1E 04	5.3E 02	5.3E 02	6.6E 02	6.7E 02	6.7E 02	9.0E 02
	(0, 1, 98)	(2, 1, 96)	(2, 1, 96)	(0, 1, 97)	(0, 1, 97)	(0, 2, 96)	(0, 1, 98)
RSP	4.2E 03	2.0E 02	2.0E 02	2.6E 02	2.7E 02	2.7E 02	3.6E 02
	(0, 2, 97)	(0, 4, 95)	(0, 4, 95)	(0, 2, 97)	(0, 3, 96)	(0, 4, 95)	(0, 2, 97)
PB	6.8E 00	3.1E-01	3.1E-01	3.9E-01	3.9E-01	3.9E-01	5.8E-01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
AS	3.2E-01	1.5E-02	1.5E-02	1.9E-02	1.9E-02	1.9E-02	2.7E-02
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CD	6.2E-02	2.8E-03	2.8E-03	3.5E-03	3.5E-03	3.5E-03	5.3E-03
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 1, 98)	(0, 1, 98)	(0, 0, 99)
V	2.0E 00	9.4E-02	9.4E-02	1.2E-01	1.2E-01	1.2E-01	1.7E-01
	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
CU	9.7E 00	4.4E-01	4.4E-01	5.6E-01	5.6E-01	5.6E-01	8.2E-01
	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
FE	2.0E 02	9.5E 00	9.5E 00	1.2E 01	1.2E 01	1.2E 01	1.6E 01
	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
AL	9.4E 02	4.7E 01	4.7E 01	6.3E 01	6.3E 01	6.3E 01	7.9E 01
	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
ZN	1.3E 01	5.9E-01	5.9E-01	7.8E-01	7.8E-01	7.8E-01	1.1E 00
	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
SO2	1.0E 02	8.9E 00	9.0E 00	7.9E 00	8.4E 00	8.8E 00	7.7E 00
	(0, 96, 3)	(0, 96, 3)	(0, 96, 3)	(0, 96, 3)	(0, 96, 3)	(0, 96, 3)	(0, 96, 3)
H2SO4	2.8E 01	2.8E 00	2.8E 00	2.3E 00	2.3E 00	2.3E 00	1.9E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	9.5E 02	9.4E 01	9.4E 01	7.9E 01	7.9E 01	8.0E 01	6.4E 01
	(0, 97, 1)	(0, 98, 1)	(0, 98, 1)	(0, 97, 1)	(0, 97, 1)	(0, 97, 1)	(0, 97, 2)
NOX	9.9E 02	9.1E 01	9.2E 01	8.0E 01	8.3E 01	8.5E 01	7.3E 01
	(0, 96, 3)	(0, 96, 3)	(0, 96, 3)	(0, 96, 3)	(0, 96, 3)	(0, 96, 3)	(0, 95, 4)
CO	6.6E 03	6.6E 02	6.6E 02	5.5E 02	5.5E 02	5.5E 02	4.4E 02
	(0, 98, 0)	(0, 98, 0)	(0, 98, 0)	(0, 98, 0)	(0, 98, 0)	(0, 98, 0)	(0, 98, 1)

TABLE 10

TOTAL EMISSIONS OF DESIGNATED AREA
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: SILVERBOW LOCATION: BERKELEY PT

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)					
		JAN	FEB	MAR	APR	MAY	JUN
TSP	1.5E 04	1.9E 03	1.9E 03	7.5E 02	7.5E 02	7.5E 02	1.5E 03
	(1. 0. 98)	(1. 0. 98)	(1. 0. 98)	(3. 0. 96)	(3. 0. 96)	(3. 0. 96)	(1. 0. 98)
RSP	6.0E 03	7.1E 02	7.1E 02	3.6E 02	3.6E 02	3.6E 02	5.7E 02
	(1. 0. 98)	(0. 0. 99)	(0. 0. 99)	(1. 0. 98)	(1. 0. 98)	(1. 0. 98)	(1. 0. 98)
PB	9.1E 00	1.3E 00	1.3E 00	3.9E-01	4.0E-01	4.0E-01	9.5E-01
	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)
AS	1.4E 00	1.9E-01	1.9E-01	5.7E-02	5.9E-02	5.9E-02	1.4E-01
	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)
CD	3.2E-01	4.4E-02	4.4E-02	1.5E-02	1.5E-02	1.5E-02	3.3E-02
	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)
V	2.3E 00	3.2E-01	3.2E-01	9.9E-02	9.9E-02	9.9E-02	2.4E-01
	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)
CU	5.7E 01	8.1E 00	8.1E 00	2.4E 00	2.4E 00	2.4E 00	5.9E 00
	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)
FE	4.1E 02	5.8E 01	5.8E 01	1.7E 01	1.8E 01	1.8E 01	4.2E 01
	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)
AL	1.0E 03	1.4E 02	1.4E 02	4.4E 01	4.4E 01	4.4E 01	1.1E 02
	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)
ZN	4.4E 01	6.2E 00	6.2E 00	1.9E 00	1.9E 00	1.9E 00	4.6E 00
	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)
SO2	2.9E 02	2.4E 01	2.4E 01	2.4E 01	2.4E 01	2.4E 01	2.4E 01
	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)
HC	3.0E 02	2.5E 01	2.5E 01	2.5E 01	2.5E 01	2.5E 01	2.5E 01
	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)
NOX	3.7E 03	3.1E 02	3.1E 02	3.1E 02	3.1E 02	3.1E 02	3.1E 02
	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)
CO	8.0E 02	6.7E 01	6.7E 01	6.7E 01	6.7E 01	6.7E 01	6.7E 01
	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)

TABLE 10 (continued)

TOTAL EMISSIONS OF DESIGNATED AREA
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: SILVERBOW LOCATION: BERKELEY PT

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)						
		JUL	AUG	SEP	OCT	NOV	DEC	
TSP	1.5E 04	1.5E 03	1.5E 03	7.9E 02	7.9E 02	7.9E 02	1.9E 03	
	(1. 0. 98)	(1. 0. 98)	(1. 0. 98)	(2. 0. 97)	(2. 0. 97)	(2. 0. 97)	(1. 0. 98)	
RSP	6.0E 03	5.7E 02	5.7E 02	3.7E 02	3.7E 02	3.7E 02	7.1E 02	
	(1. 0. 98)	(1. 0. 98)	(1. 0. 98)	(1. 0. 98)	(1. 0. 98)	(1. 0. 98)	(0. 0. 99)	
PB	9.1E 00	9.5E-01	9.5E-01	4.3E-01	4.3E-01	4.3E-01	1.3E 00	
	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	
AS	1.4E 00	1.4E-01	1.4E-01	6.5E-02	6.3E-02	6.3E-02	1.9E-01	
	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	
CD	3.2E-01	3.3E-02	3.3E-02	1.6E-02	1.6E-02	1.6E-02	4.4E-02	
	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	
V	2.3E 00	2.4E-01	2.4E-01	1.1E-01	1.1E-01	1.1E-01	3.2E-01	
	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	
CU	5.7E 01	5.9E 00	5.9E 00	2.7E 00	2.6E 00	2.6E 00	8.1E 00	
	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	
FE	4.1E 02	4.2E 01	4.2E 01	1.9E 01	1.9E 01	1.9E 01	5.8E 01	
	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	
AL	1.0E 03	1.1E 02	1.1E 02	4.8E 01	4.8E 01	4.8E 01	1.4E 02	
	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	
ZN	4.4E 01	4.6E 00	4.6E 00	2.1E 00	2.0E 00	2.0E 00	6.2E 00	
	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	
SO2	2.4E 02	2.4E 01	2.4E 01	2.4E 01	2.4E 01	2.4E 01	2.4E 01	
	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	
HC	3.0E 02	2.5E 01	2.5E 01	2.5E 01	2.5E 01	2.5E 01	2.5E 01	
	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	
NOX	3.7E 03	3.1E 02	3.1E 02	3.1E 02	3.1E 02	3.1E 02	3.1E 02	
	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	
CO	8.0E 02	6.7E 01	6.7E 01	6.7E 01	6.7E 01	6.7E 01	6.7E 01	
	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	(100. 0. 0)	

TOTAL EMISSIONS OF DESIGNATED AREA
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: DEERLODGE LOCATION: ANACONDA

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)					
		JAN	FEB	MAR	APR	MAY	JUN
TSP	8.9E 03	7.6E 02	7.8E 02	9.8E 02	8.7E 02	8.7E 02	6.3E 02
	(28, 0, 70)	(28, 0, 71)	(27, 0, 72)	(21, 0, 77)	(24, 0, 75)	(24, 0, 75)	(33, 0, 65)
RSP	4.5E 03	3.8E 02	3.8E 02	4.6E 02	4.3E 02	4.3E 02	3.3E 02
	(52, 0, 47)	(51, 0, 47)	(51, 0, 48)	(42, 0, 57)	(45, 0, 54)	(45, 0, 54)	(58, 0, 40)
PB	1.4E 02	1.2E 01	1.2E 01	1.2E 01	1.2E 01	1.2E 01	1.2E 01
	(93, 0, 6)	(92, 0, 7)	(91, 0, 8)	(90, 0, 9)	(93, 0, 6)	(93, 0, 6)	(95, 0, 4)
AS	2.4E 02	2.0E 01	2.0E 01	2.0E 01	2.0E 01	2.0E 01	2.0E 01
	(99, 0, 0)	(98, 0, 1)	(98, 0, 1)	(98, 0, 1)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)
CD	6.7E 00	5.9E-01	5.9E-01	6.0E-01	5.5E-01	5.5E-01	5.5E-01
	(89, 0, 10)	(85, 0, 14)	(84, 0, 15)	(83, 0, 16)	(90, 0, 9)	(90, 0, 9)	(91, 0, 8)
V	2.0E 00	2.0E-01	2.1E-01	2.5E-01	1.9E-01	1.9E-01	1.3E-01
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CU	4.2E 02	3.6E 01	3.7E 01	3.7E 01	3.5E 01	3.5E 01	3.4E 01
	(90, 0, 9)	(87, 0, 12)	(87, 0, 12)	(86, 0, 13)	(91, 0, 8)	(91, 0, 8)	(92, 0, 7)
FE	6.4E 02	6.9E 01	7.5E 01	7.9E 01	5.1E 01	5.1E 01	4.3E 01
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
AL	1.2E 03	1.2E 02	1.3E 02	1.5E 02	9.6E 01	9.6E 01	7.5E 01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
ZN	1.3E 02	1.2E 01	1.2E 01	1.2E 01	1.1E 01	1.1E 01	1.0E 01
	(79, 0, 20)	(74, 0, 25)	(73, 0, 26)	(71, 0, 28)	(79, 0, 20)	(79, 0, 20)	(83, 0, 16)
SO2	2.7E 05	2.3E 04	2.3E 04	2.3E 04	2.3E 04	2.3E 04	2.3E 04
	(100, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)
H2SO4	4.7E 00	3.2E-01	3.2E-01	4.0E-01	4.0E-01	4.0E-01	4.7E-01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	2.1E 02	1.5E 01	1.4E 01	1.8E 01	1.8E 01	1.8E 01	2.1E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
NOX	2.2E 02	1.8E 01	1.7E 01	2.0E 01	1.8E 01	1.7E 01	2.0E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
CO	1.5E 03	9.8E 01	9.8E 01	1.2E 02	1.2E 02	1.2E 02	1.5E 02
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)

TABLE 11 (continued)

TOTAL EMISSIONS OF DESIGNATED AREA
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: DEERLODGE LOCATION: ANACONDA

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS) JUL	AUG	SEP	OCT	NOV	DEC
TSP	8.9E 03	5.7E 02	6.1E 02	6.1E 02	6.3E 02	8.1E 02	7.4E 02
	(28, 0, 70)	(37, 0, 62)	(35, 0, 64)	(34, 0, 64)	(33, 0, 65)	(26, 0, 73)	(28, 0, 70)
RSP	4.5E 03	3.2E 02	3.3E 02	3.4E 02	3.4E 02	3.9E 02	3.7E 02
	(52, 0, 47)	(61, 0, 38)	(59, 0, 39)	(58, 0, 41)	(57, 0, 42)	(50, 0, 48)	(52, 0, 46)
PB	1.4E 02	1.1E 01	1.1E 01	1.1E 01	1.1E 01	1.2E 01	1.2E 01
	(93, 0, 6)	(96, 0, 3)	(95, 0, 4)	(96, 0, 3)	(95, 0, 4)	(91, 0, 8)	(92, 0, 7)
AS	2.4E 02	2.0E 01	2.0E 01	2.0E 01	2.0E 01	2.0E 01	2.0E 01
	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(98, 0, 1)	(98, 0, 1)
CD	6.7E 00	5.3E-01	5.4E-01	5.3E-01	5.4E-01	6.0E-01	5.8E-01
	(89, 0, 10)	(94, 0, 5)	(92, 0, 7)	(94, 0, 5)	(93, 0, 6)	(83, 0, 16)	(86, 0, 13)
V	2.0E 00	9.6E-02	1.2E-01	1.1E-01	1.2E-01	2.2E-01	1.9E-01
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CU	4.2E 02	3.3E 01	3.4E 01	3.3E 01	3.4E 01	3.7E 01	3.6E 01
	(90, 0, 9)	(95, 0, 4)	(93, 0, 6)	(95, 0, 4)	(94, 0, 5)	(86, 0, 13)	(88, 0, 11)
FE	6.4E 02	2.6E 01	3.6E 01	2.8E 01	3.4E 01	8.1E 01	6.9E 01
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
AL	1.2E 03	4.8E 01	6.5E 01	5.4E 01	6.4E 01	1.4E 02	1.2E 02
	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
ZN	1.3E 02	9.8E 00	1.0E 01	9.9E 00	1.0E 01	1.2E 01	1.2E 01
	(79, 0, 20)	(88, 0, 11)	(85, 0, 14)	(87, 0, 12)	(85, 0, 14)	(71, 0, 28)	(75, 0, 24)
SO2	2.7E 05	2.3E 04	2.3E 04	2.3E 04	2.3E 04	2.3E 04	2.3E 04
	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)
H2SO4	4.7E 00	4.7E-01	4.7E-01	4.0E-01	4.0E-01	4.0E-01	3.2E-01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	2.1E 02	2.1E 01	2.1E 01	1.8E 01	1.8E 01	1.8E 01	1.4E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
NOX	2.2E 02	1.9E 01	2.0E 01	1.7E 01	1.8E 01	1.9E 01	1.7E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
CO	1.5E 03	1.5E 02	1.5E 02	1.2E 02	1.2E 02	1.2E 02	9.8E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)

TABLE 12

TOTAL EMISSIONS OF DESIGNATED AREA
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: MISSOULA LOCATION: MISSOULA

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)					
		JAN	FEB	MAR	APR	MAY	JUN
TSP	3.1E 04	1.9E 03	1.9E 03	2.9E 03	2.9E 03	2.9E 03	2.8E 03
	(2, 0, 96)	(3, 1, 94)	(3, 1, 94)	(2, 0, 97)	(2, 0, 97)	(2, 0, 97)	(1, 0, 97)
RSP	1.2E 04	7.7E 02	7.7E 02	1.1E 03	1.1E 03	1.1E 03	9.9E 02
	(5, 2, 92)	(8, 2, 88)	(8, 2, 88)	(4, 1, 93)	(4, 1, 93)	(4, 1, 93)	(4, 1, 93)
PB	1.5E 01	1.1E 00	1.1E 00	1.6E 00	1.6E 00	1.6E 00	9.9E-01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
AS	7.1E-02	4.4E-03	4.4E-03	6.8E-03	6.8E-03	6.8E-03	6.3E-03
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CD	1.5E-01	1.2E-02	1.2E-02	1.7E-02	1.7E-02	1.7E-02	1.1E-02
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
V	2.8E 00	1.7E-01	1.7E-01	2.6E-01	2.6E-01	2.6E-01	2.6E-01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CU	1.1E 01	8.4E-01	8.4E-01	1.2E 00	1.2E 00	1.2E 00	8.2E-01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
FE	5.8E 02	3.6E 01	3.6E 01	5.5E 01	5.5E 01	5.5E 01	5.3E 01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
AL	1.4E 03	8.5E 01	8.5E 01	1.3E 02	1.3E 02	1.3E 02	1.4E 02
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
ZN	5.4E 00	4.1E-01	4.1E-01	5.7E-01	5.7E-01	5.7E-01	3.8E-01
	(0, 0, 99)	(0, 1, 98)	(0, 1, 98)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
SO2	3.2E 02	3.3E 01	2.8E 01	3.1E 01	2.5E 01	2.3E 01	2.3E 01
	(7, 91, 1)	(5, 93, 1)	(6, 91, 1)	(6, 92, 1)	(7, 91, 1)	(8, 90, 1)	(8, 90, 1)
H2SO4	6.6E 01	4.4E 00	4.4E 00	5.5E 00	5.5E 00	5.5E 00	6.6E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	1.9E 03	1.3E 02	1.3E 02	1.6E 02	1.6E 02	1.6E 02	1.9E 02
	(3, 95, 1)	(4, 94, 1)	(4, 93, 1)	(3, 95, 1)	(3, 95, 1)	(3, 95, 1)	(3, 95, 0)
NOX	2.2E 03	1.6E 02	1.6E 02	1.9E 02	1.9E 02	1.8E 02	2.1E 02
	(6, 91, 1)	(8, 89, 2)	(8, 89, 2)	(6, 91, 1)	(7, 91, 1)	(7, 91, 1)	(6, 92, 1)
CO	1.6E 04	1.1E 03	1.1E 03	1.3E 03	1.3E 03	1.3E 03	1.6E 03
	(1, 98, 0)	(1, 98, 0)	(1, 98, 0)	(1, 98, 0)	(1, 98, 0)	(1, 98, 0)	(0, 98, 0)

TABLE 12 (continued)

TOTAL EMISSIONS OF DESIGNATED AREA
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: MISSOULA LOCATION: MISSOULA

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS) JUL	AUG	SEP	OCT	NOV	DEC
TSP	3.1E 04 (2. 0. 96)	2.8E 03 (1. 0. 97)	2.8E 03 (1. 0. 97)	2.6E 03 (2. 0. 97)	2.7E 03 (2. 0. 96)	2.7E 03 (2. 1. 96)	1.9E 03 (3. 1. 94)
RSP	1.2E 04 (5. 2. 92)	9.9E 02 (4. 1. 93)	9.9E 02 (4. 1. 93)	9.8E 02 (5. 1. 92)	9.9E 02 (5. 2. 92)	9.9E 02 (5. 2. 92)	7.7E 02 (8. 2. 88)
PB	1.5E 01 (0. 0. 99)	9.9E-01 (0. 0. 99)	9.9E-01 (0. 0. 99)	1.1E 00 (0. 0. 99)	1.1E 00 (0. 0. 99)	1.1E 00 (0. 0. 99)	1.1E 00 (0. 0. 99)
AS	7.1E-02 (0. 0.100)	6.3E-03 (0. 0.100)	6.3E-03 (0. 0.100)	6.1E-03 (0. 0.100)	6.1E-03 (0. 0.100)	6.1E-03 (0. 0.100)	4.4E-03 (0. 0.100)
CD	1.5E-01 (0. 0. 99)	1.1E-02 (0. 0. 99)	1.1E-02 (0. 0. 99)	1.2E-02 (0. 0. 99)	1.2E-02 (0. 0. 99)	1.2E-02 (0. 0. 99)	1.2E-02 (0. 0. 99)
V	2.8E 00 (0. 0. 99)	2.6E-01 (0. 0.100)	2.6E-01 (0. 0.100)	2.4E-01 (0. 0.100)	2.4E-01 (0. 0. 99)	2.4E-01 (0. 0. 99)	1.7E-01 (0. 0. 99)
CU	1.1E 01 (0. 0. 99)	8.2E-01 (0. 0.100)	8.2E-01 (0. 0.100)	8.9E-01 (0. 0.100)	8.9E-01 (0. 0. 99)	8.9E-01 (0. 0. 99)	8.4E-01 (0. 0. 99)
FE	5.8E 02 (0. 0. 99)	5.3E 01 (0. 0.100)	5.3E 01 (0. 0.100)	5.0E 01 (0. 0.100)	5.0E 01 (0. 0. 99)	5.0E 01 (0. 0. 99)	3.6E 01 (0. 0. 99)
AL	1.4E 03 (0. 0. 99)	1.4E 02 (0. 0.100)	1.4E 02 (0. 0.100)	1.3E 02 (0. 0.100)	1.3E 02 (0. 0. 99)	1.3E 02 (0. 0. 99)	8.5E 01 (0. 0. 99)
ZN	5.4E 00 (0. 0. 99)	3.8E-01 (0. 0.100)	3.8E-01 (0. 0.100)	4.3E-01 (0. 0.100)	4.3E-01 (0. 0. 99)	4.3E-01 (0. 1. 98)	4.1E-01 (0. 1. 98)
SO2	3.2E 02 (7. 91. 1)	2.1E 01 (9. 89. 1)	2.2E 01 (8. 90. 1)	2.2E 01 (8. 89. 1)	2.7E 01 (7. 91. 1)	3.1E 01 (6. 92. 1)	3.1E 01 (6. 92. 1)
H2SO4	6.6E 01 (0.100. 0)	6.6E 00 (0.100. 0)	6.6E 00 (0.100. 0)	5.5E 00 (0.100. 0)	5.5E 00 (0.100. 0)	5.5E 00 (0.100. 0)	4.4E 00 (0.100. 0)
HC	1.9E 03 (3. 95. 1)	1.9E 02 (3. 95. 0)	1.9E 02 (3. 95. 0)	1.6E 02 (3. 95. 1)	1.6E 02 (3. 95. 1)	1.6E 02 (3. 95. 1)	1.3E 02 (4. 93. 1)
NOX	2.2E 03 (6. 91. 1)	2.1E 02 (6. 92. 1)	2.1E 02 (6. 92. 1)	1.8E 02 (7. 91. 1)	1.9E 02 (6. 91. 1)	1.9E 02 (6. 91. 1)	1.6E 02 (8. 89. 2)
CO	1.6E 04 (1. 98. 0)	1.6E 03 (0. 98. 0)	1.6E 03 (0. 98. 0)	1.3E 03 (1. 98. 0)	1.3E 03 (1. 98. 0)	1.3E 03 (1. 98. 0)	1.1E 03 (1. 98. 0)

TABLE 13

TOTAL EMISSIONS OF DESIGNATED AREA
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: YELLOWSTONE LOCATION: BILLINGS

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)					
		JAN	FEB	MAR	APR	MAY	JUN
TSP	4.2E 04	3.3E 03	3.3E 03	4.8E 03	4.8E 03	4.8E 03	2.8E 03
	(6, 1, 92)	(6, 1, 92)	(6, 1, 92)	(4, 0, 95)	(4, 0, 95)	(4, 0, 95)	(7, 1, 91)
RSP	1.6E 04	1.3E 03	1.3E 03	1.9E 03	1.9E 03	1.9E 03	1.1E 03
	(5, 2, 92)	(5, 2, 91)	(5, 2, 91)	(3, 1, 95)	(3, 1, 95)	(3, 1, 95)	(6, 3, 90)
PB	3.8E 01	3.2E 00	3.2E 00	4.7E 00	4.7E 00	4.7E 00	2.2E 00
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
AS	1.1E-01	7.9E-03	7.9E-03	1.3E-02	1.3E-02	1.2E-02	6.8E-03
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CD	1.4E-01	1.1E-02	1.1E-02	1.7E-02	1.7E-02	1.7E-02	8.4E-03
	(0, 0, 99)	(0, 1, 98)	(0, 1, 98)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
V	4.7E 00	3.7E-01	3.7E-01	5.5E-01	5.5E-01	5.4E-01	3.1E-01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CU	6.9E 00	5.3E-01	5.3E-01	8.3E-01	8.3E-01	7.8E-01	4.5E-01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
FE	1.2E 03	9.0E 01	9.0E 01	1.4E 02	1.4E 02	1.3E 02	7.2E 01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
AL	2.4E 03	1.8E 02	1.8E 02	2.8E 02	2.8E 02	2.6E 02	1.5E 02
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
ZN	7.0E 00	5.6E-01	5.6E-01	8.6E-01	8.6E-01	8.2E-01	4.2E-01
	(0, 0, 99)	(0, 1, 98)	(0, 1, 98)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
SO2	3.3E 04	2.7E 03	2.7E 03	2.6E 03	2.6E 03	2.6E 03	2.8E 03
	(98, 1, 0)	(99, 0, 0)	(99, 0, 0)	(98, 1, 0)	(98, 1, 0)	(98, 1, 0)	(98, 1, 0)
H2SO4	1.1E 02	7.3E 00	7.3E 00	9.1E 00	9.1E 00	9.1E 00	1.1E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	6.2E 03	4.7E 02	4.7E 02	5.2E 02	5.1E 02	5.1E 02	5.6E 02
	(53, 45, 0)	(58, 40, 0)	(58, 40, 0)	(53, 45, 0)	(53, 45, 0)	(53, 45, 0)	(49, 50, 0)
NOX	1.2E 04	9.9E 02	9.8E 02	9.4E 02	9.3E 02	9.3E 02	1.1E 03
	(71, 28, 0)	(74, 24, 0)	(75, 23, 0)	(68, 31, 0)	(68, 30, 0)	(68, 30, 0)	(68, 31, 0)
CO	8.6E 04	6.7E 03	6.7E 03	7.1E 03	7.1E 03	7.1E 03	7.6E 03
	(68, 30, 0)	(73, 26, 0)	(73, 26, 0)	(68, 30, 0)	(68, 30, 0)	(68, 30, 0)	(64, 34, 0)

TABLE 13 (continued)

TOTAL EMISSIONS OF DESIGNATED AREA
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: YELLOWSTONE LOCATION: BILLINGS

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)					
		JUL	AUG	SEP	OCT	NOV	DEC
TSP	4.2E 04 (6, 1, 92)	2.8E 03 (7, 1, 91)	2.8E 03 (7, 1, 91)	3.2E 03 (7, 0, 91)	3.2E 03 (7, 1, 91)	3.1E 03 (7, 1, 91)	3.3E 03 (6, 1, 92)
RSP	1.6E 04 (5, 2, 92)	1.1E 03 (6, 3, 90)	1.1E 03 (6, 3, 90)	1.2E 03 (6, 2, 91)	1.2E 03 (6, 2, 90)	1.2E 03 (6, 3, 90)	1.3E 03 (5, 2, 91)
PB	3.8E 01 (0, 0, 99)	2.2E 00 (0, 0, 99)	2.2E 00 (0, 0, 99)	2.7E 00 (0, 0, 99)	2.7E 00 (0, 0, 99)	2.7E 00 (0, 0, 99)	3.2E 00 (0, 0, 99)
AS	1.1E-01 (0, 0,100)	6.8E-03 (0, 0,100)	6.8E-03 (0, 0,100)	9.0E-03 (0, 0,100)	9.0E-03 (0, 0,100)	7.5E-03 (0, 0,100)	7.9E-03 (0, 0,100)
CD	1.4E-01 (0, 0, 99)	8.4E-03 (0, 0, 99)	8.4E-03 (0, 0, 99)	1.0E-02 (0, 0, 99)	1.0E-02 (0, 1, 98)	1.0E-02 (0, 1, 98)	1.1E-02 (0, 1, 98)
V	4.7E 00 (0, 0, 99)	3.1E-01 (0, 0,100)	3.1E-01 (0, 0,100)	3.6E-01 (0, 0,100)	3.6E-01 (0, 0, 99)	3.4E-01 (0, 0, 99)	3.7E-01 (0, 0, 99)
CU	6.9E 00 (0, 0, 99)	4.5E-01 (0, 0,100)	4.5E-01 (0, 0,100)	5.5E-01 (0, 0,100)	5.5E-01 (0, 0, 99)	5.0E-01 (0, 0, 99)	5.3E-01 (0, 0, 99)
FE	1.2E 03 (0, 0, 99)	7.2E 01 (0, 0,100)	7.2E 01 (0, 0,100)	9.0E 01 (0, 0,100)	9.1E 01 (0, 0, 99)	8.2E 01 (0, 0, 99)	9.0E 01 (0, 0, 99)
AL	2.4E 03 (0, 0, 99)	1.5E 02 (0, 0,100)	1.5E 02 (0, 0,100)	1.9E 02 (0, 0,100)	1.9E 02 (0, 0, 99)	1.7E 02 (0, 0, 99)	1.8E 02 (0, 0, 99)
ZN	7.0E 00 (0, 0, 99)	4.2E-01 (0, 0,100)	4.2E-01 (0, 0,100)	5.3E-01 (0, 0,100)	5.4E-01 (0, 0, 99)	5.0E-01 (0, 1, 98)	5.6E-01 (0, 1, 98)
SO2	3.3E 04 (98, 1, 0)	2.8E 03 (98, 1, 0)	2.8E 03 (98, 1, 0)	2.9E 03 (99, 0, 0)	2.9E 03 (99, 0, 0)	2.9E 03 (98, 1, 0)	2.7E 03 (99, 0, 0)
H2SO4	1.1E 02 (0,100, 0)	1.1E 01 (0,100, 0)	1.1E 01 (0,100, 0)	9.1E 00 (0,100, 0)	9.1E 00 (0,100, 0)	9.1E 00 (0,100, 0)	7.3E 00 (0,100, 0)
HC	6.2E 03 (53, 45, 0)	5.6E 02 (49, 50, 0)	5.6E 02 (49, 50, 0)	5.2E 02 (53, 45, 0)	5.2E 02 (53, 45, 0)	5.2E 02 (53, 45, 0)	4.7E 02 (58, 40, 0)
NOX	1.2E 04 (71, 28, 0)	1.1E 03 (68, 31, 0)	1.1E 03 (68, 31, 0)	1.1E 03 (73, 25, 0)	1.1E 03 (72, 26, 0)	1.1E 03 (72, 26, 0)	9.9E 02 (74, 24, 0)
CO	8.6E 04 (68, 30, 0)	7.6E 03 (64, 34, 0)	7.6E 03 (64, 34, 0)	7.1E 03 (68, 30, 0)	7.1E 03 (68, 30, 0)	7.1E 03 (68, 30, 0)	6.7E 03 (73, 26, 0)

TABLE 14

TOTAL EMISSIONS OF DESIGNATED AREA
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: SILVERBOW LOCATION: RURAL

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS) JAN	FEB	MAR	APR	MAY	JUN
TSP	9.1E 03	4.6E 02	4.6E 02	8.3E 02	8.3E 02	8.3E 02	8.5E 02
	(0, 0, 98)	(0, 1, 97)	(0, 1, 97)	(0, 0, 98)	(0, 0, 98)	(0, 0, 98)	(0, 0, 98)
RSP	3.1E 03	1.7E 02	1.7E 02	2.9E 02	2.9E 02	2.9E 02	2.9E 02
	(1, 2, 96)	(2, 3, 94)	(2, 3, 94)	(1, 1, 96)	(1, 1, 97)	(1, 1, 97)	(1, 1, 96)
PB	3.5E 00	2.3E-01	2.3E-01	3.6E-01	3.6E-01	3.6E-01	2.8E-01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
AS	1.7E-01	9.1E-03	9.1E-03	1.6E-02	1.6E-02	1.6E-02	1.6E-02
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CD	5.6E-02	2.8E-03	2.8E-03	5.1E-03	5.1E-03	5.1E-03	5.4E-03
	(0, 0, 99)	(0, 1, 98)	(0, 1, 98)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
V	1.6E 00	1.0E-01	1.0E-01	1.6E-01	1.6E-01	1.6E-01	1.3E-01
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CU	5.1E 00	3.3E-01	3.3E-01	5.2E-01	5.2E-01	5.2E-01	4.1E-01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
FE	2.9E 02	1.4E 01	1.4E 01	2.6E 01	2.6E 01	2.6E 01	2.7E 01
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
AL	6.3E 02	2.9E 01	2.9E 01	5.6E 01	5.6E 01	5.6E 01	6.1E 01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
ZN	7.6E 00	5.4E-01	5.4E-01	7.9E-01	7.9E-01	7.9E-01	5.8E-01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
SO2	8.5E 01	7.2E 00	6.8E 00	7.6E 00	7.1E 00	6.8E 00	7.2E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
H2SO4	1.0E 01	6.7E-01	6.7E-01	8.4E-01	8.4E-01	8.4E-01	1.0E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	5.0E 02	3.5E 01	3.5E 01	4.2E 01	4.2E 01	4.2E 01	4.9E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
NOX	7.4E 02	5.5E 01	5.5E 01	6.2E 01	6.1E 01	6.1E 01	6.8E 01
	(5, 94, 0)	(5, 94, 0)	(6, 93, 0)	(5, 94, 0)	(5, 94, 0)	(5, 94, 0)	(4, 95, 0)
CO	4.3E 03	2.9E 02	2.9E 02	3.5E 02	3.5E 02	3.5E 02	4.2E 02
	(0, 99, 0)	(0, 99, 0)	(0, 99, 0)	(0, 99, 0)	(0, 99, 0)	(0, 99, 0)	(0, 99, 0)

TOTAL EMISSIONS OF DESIGNATED AREA
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: SILVERBOW LOCATION: RURAL

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS) JUL	AUG	SEP	OCT	NOV	DEC
TSP	9.1E 03	8.5E 02	8.5E 02	8.9E 02	8.9E 02	8.9E 02	4.6E 02
	(0. 0. 98)	(0. 0. 98)	(0. 0. 98)	(0. 0. 98)	(0. 0. 98)	(0. 0. 98)	(0. 1. 97)
RSP	3.1E 03	2.9E 02	2.9E 02	2.9E 02	2.9E 02	3.0E 02	1.7E 02
	(1. 2. 96)	(1. 1. 96)	(1. 1. 96)	(1. 1. 97)	(1. 1. 96)	(1. 2. 96)	(2. 3. 94)
PB	3.5E 00	2.8E-01	2.8E-01	2.9E-01	2.9E-01	2.9E-01	2.3E-01
	(0. 0. 99)	(0. 0. 99)	(0. 0. 99)	(0. 0. 99)	(0. 0. 99)	(0. 0. 99)	(0. 0. 99)
AS	1.7E-01	1.6E-02	1.6E-02	1.6E-02	1.6E-02	1.6E-02	9.1E-03
	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)
CD	5.6E-02	5.4E-03	5.4E-03	5.5E-03	5.5E-03	5.5E-03	2.8E-03
	(0. 0. 99)	(0. 0. 99)	(0. 0. 99)	(0. 0. 99)	(0. 0. 99)	(0. 0. 99)	(0. 1. 98)
V	1.6E 00	1.3E-01	1.3E-01	1.5E-01	1.5E-01	1.5E-01	1.0E-01
	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0. 99)
CU	5.1E 00	4.1E-01	4.1E-01	4.5E-01	4.5E-01	4.5E-01	3.3E-01
	(0. 0. 99)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0. 99)	(0. 0. 99)	(0. 0. 99)
FE	2.9E 02	2.7E 01	2.7E 01	2.8E 01	2.8E 01	2.8E 01	1.4E 01
	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0. 99)	(0. 0. 99)
AL	6.3E 02	6.1E 01	6.1E 01	6.2E 01	6.2E 01	6.2E 01	2.9E 01
	(0. 0. 99)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0. 99)	(0. 0. 99)	(0. 0. 99)
ZN	7.6E 00	5.8E-01	5.8E-01	6.4E-01	6.4E-01	6.4E-01	5.4E-01
	(0. 0. 99)	(0. 0.100)	(0. 0.100)	(0. 0.100)	(0. 0. 99)	(0. 0. 99)	(0. 0. 99)
SO2	8.5E 01	7.1E 00	7.2E 00	6.8E 00	7.1E 00	7.5E 00	7.0E 00
	(0.100. 0)	(0.100. 0)	(0.100. 0)	(0.100. 0)	(0.100. 0)	(0.100. 0)	(0.100. 0)
H2SO4	1.0E 01	1.0E 00	1.0E 00	8.4E-01	8.4E-01	8.4E-01	6.7E-01
	(0.100. 0)	(0.100. 0)	(0.100. 0)	(0.100. 0)	(0.100. 0)	(0.100. 0)	(0.100. 0)
HC	5.0E 02	4.9E 01	4.9E 01	4.2E 01	4.2E 01	4.2E 01	3.5E 01
	(0.100. 0)	(0.100. 0)	(0.100. 0)	(0.100. 0)	(0.100. 0)	(0.100. 0)	(0.100. 0)
NOX	7.4E 02	6.7E 01	6.8E 01	6.1E 01	6.1E 01	6.2E 01	5.5E 01
	(5. 94. 0)	(4. 95. 0)	(4. 95. 0)	(5. 94. 0)	(5. 94. 0)	(5. 94. 0)	(6. 94. 0)
CO	4.3E 03	4.2E 02	4.2E 02	3.5E 02	3.5E 02	3.5E 02	2.9E 02
	(0. 99. 0)	(0. 99. 0)	(0. 99. 0)	(0. 99. 0)	(0. 99. 0)	(0. 99. 0)	(0. 99. 0)

TABLE 15

TOTAL EMISSIONS OF DESIGNATED AREA
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: DEERLODGE LOCATION: RURAL

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)					
		JAN	FEB	MAR	APR	MAY	JUN
TSP	6.6E 03	3.7E 02	3.7E 02	6.3E 02	6.3E 02	6.3E 02	5.8E 02
	(0, 0, 99)	(0, 1, 98)	(0, 1, 98)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
RSP	2.3E 03	1.4F 02	1.4E 02	2.3F 02	2.3F 02	2.3E 02	2.0E 02
	(0, 2, 97)	(0, 2, 97)	(0, 2, 97)	(0, 1,.98)	(0, 1, 98)	(0, 1, 98)	(0, 2, 97)
PB	3.2E 00	2.3E-01	2.3E-01	3.4E-01	3.4E-01	3.4E-01	2.4E-01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
AS	1.3E-01	7.8F-03	7.8E-03	1.3E-02	1.3E-02	1.3E-02	1.1E-02
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CD	4.0E-02	2.2E-03	2.2E-03	3.8E-03	3.8E-03	3.8E-03	3.6E-03
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
V	1.4F 00	9.9F-02	9.9E-02	1.5F-01	1.5E-01	1.5E-01	1.1E-01
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CU	4.5E 00	3.2F-01	3.2E-01	4.7E-01	4.7E-01	4.7E-01	3.4E-01
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
FE	2.0E 02	1.1F 01	1.1F 01	1.9F 01	1.9F 01	1.9E 01	1.8E 01
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
AL	4.3E 02	2.3E 01	2.3F 01	4.0E 01	4.0F 01	4.0E 01	4.0E 01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
ZN	7.1E 00	5.3E-01	5.3E-01	7.5E-01	7.5E-01	7.5E-01	5.1E-01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
SO2	7.0E 01	6.1F 00	5.6E 00	6.4E 00	5.7E 00	5.4E 00	5.8E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
H2SO4	9.9E 00	6.6E-01	6.6E-01	8.3E-01	8.3E-01	8.3E-01	9.9E-01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	4.3E 02	2.9E 01	2.9E 01	3.6F 01	3.6E 01	3.6E 01	4.2E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
NOX	5.7F 02	4.1F 01	4.0F 01	4.8F 01	4.7E 01	4.7E 01	5.4E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
CO	4.2E 03	2.8F 02	2.8E 02	3.5E 02	3.5F 02	3.5E 02	4.2E 02
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)

TABLE 15 (continued)

TOTAL EMISSIONS OF DESIGNATED AREA
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: DEERLODGE LOCATION: RURAL

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)						
		JUL	AUG	SEP	OCT	NOV	DEC	
TSP	6.6E 03	5.8E 02	5.8E 02	6.2E 02	6.2E 02	6.2E 02	3.7E 02	
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 1, 98)	
RSP	2.3E 03	2.0E 02	2.0E 02	2.1E 02	2.1E 02	2.1E 02	1.4E 02	
	(0, 2, 97)	(0, 2, 97)	(0, 2, 97)	(0, 1, 98)	(0, 1, 98)	(0, 2, 97)	(0, 2, 97)	
PB	3.2E 00	2.4E-01	2.4E-01	2.5E-01	2.5E-01	2.5E-01	2.3E-01	
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	
AS	1.3E-01	1.1E-02	1.1E-02	1.2E-02	1.2E-02	1.2E-02	7.8E-03	
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	
CD	4.0E-02	3.6E-03	3.6E-03	3.7E-03	3.8E-03	3.8E-03	2.2E-03	
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	
V	1.4E 00	1.1E-01	1.1E-01	1.2E-01	1.2E-01	1.2E-01	9.9E-02	
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	
CU	4.5E 00	3.4E-01	3.4E-01	3.8E-01	3.8E-01	3.8E-01	3.2E-01	
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	
FE	2.0E 02	1.8E 01	1.8E 01	1.9E 01	1.9E 01	1.9E 01	1.1E 01	
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	
AL	4.3E 02	4.0E 01	4.0E 01	4.1E 01	4.1E 01	4.1E 01	2.3E 01	
	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	
ZN	7.1E 00	5.1E-01	5.1E-01	5.8E-01	5.8E-01	5.8E-01	5.3E-01	
	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	
SO2	7.0E 01	5.6E 00	5.8E 00	5.4E 00	5.8E 00	6.3E 00	5.8E 00	
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	
H2SO4	9.9E 00	9.9E-01	9.9E-01	8.3E-01	8.3E-01	8.3E-01	6.6E-01	
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	
HC	4.3E 02	4.2E 01	4.2E 01	3.6E 01	3.6E 01	3.6E 01	2.9E 01	
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	
NOX	5.7E 02	5.4E 01	5.4E 01	4.7E 01	4.7E 01	4.7E 01	4.0E 01	
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	
CO	4.2E 03	4.2E 02	4.2E 02	3.5E 02	3.5E 02	3.5E 02	2.8E 02	
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	

TABLE 16

TOTAL EMISSIONS OF DESIGNATED AREA
(*POINT,%AREA,%FUGITIVE DUST)

COUNTY: MISSOULA LOCATION: RURAL

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)					
		JAN	FEB	MAR	APR	MAY	JUN
TSP	7.5E 04	3.3E 03	3.3E 03	6.0E 03	6.0E 03	6.0E 03	8.6E 03
	(1, 0, 98)	(2, 0, 96)	(2, 0, 96)	(1, 0, 98)	(1, 0, 98)	(1, 0, 98)	(0, 0, 98)
RSP	2.4E 04	1.1E 03	1.1E 03	2.0E 03	2.0E 03	2.0E 03	2.7E 03
	(3, 0, 95)	(7, 1, 91)	(7, 1, 91)	(3, 0, 95)	(3, 0, 95)	(3, 0, 95)	(2, 0, 96)
PB	8.9E 00	6.3E-01	6.3E-01	9.0E-01	9.0E-01	9.0E-01	7.1E-01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
AS	1.9E-01	8.1E-03	8.1E-03	1.5E-02	1.5E-02	1.5E-02	2.1E-02
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CD	1.1E-01	6.3E-03	6.3E-03	1.0E-02	1.0E-02	1.0E-02	1.1E-02
	(0, 0, 99)	(0, 1, 98)	(0, 1, 98)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
V	7.4E 00	3.1E-01	3.1E-01	5.9E-01	5.9E-01	5.8E-01	8.5E-01
	(0, 0,100)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CU	2.0E 01	1.1E 00	1.1E 00	1.8E 00	1.8E 00	1.8E 00	2.1E 00
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
FE	1.1E 03	5.1E 01	5.1E 01	9.1E 01	9.1E 01	8.9E 01	1.2E 02
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
AL	3.8E 03	1.6E 02	1.6E 02	3.0E 02	3.0E 02	3.0E 02	4.4E 02
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
ZN	6.9E 00	3.8E-01	3.8E-01	6.2E-01	6.2E-01	6.1E-01	6.8E-01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
SO2	1.8E 03	1.6E 02	1.6E 02	1.6E 02	1.5E 02	1.5E 02	1.5E 02
	(85, 14, 0)	(83, 17, 0)	(85, 15, 0)	(83, 16, 0)	(85, 14, 0)	(86, 13, 0)	(86, 13, 0)
H2SO4	3.2E 01	2.2E 00	2.2E 00	2.7E 00	2.7E 00	2.7E 00	3.2E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	1.9E 03	1.4E 02	1.4E 02	1.5E 02	1.5E 02	1.5E 02	1.7E 02
	(17, 82, 0)	(24, 75, 0)	(24, 75, 0)	(16, 83, 0)	(16, 83, 0)	(16, 83, 0)	(12, 87, 0)
NOX	3.5E 03	3.0E 02	3.0E 02	3.0E 02	2.9E 02	2.9E 02	2.9E 02
	(47, 52, 0)	(56, 43, 0)	(56, 43, 0)	(47, 52, 0)	(48, 52, 0)	(48, 51, 0)	(38, 61, 0)
CO	3.1E 04	2.4E 03	2.4E 03	2.6E 03	2.6E 03	2.6E 03	2.8E 03
	(56, 43, 0)	(61, 38, 0)	(61, 38, 0)	(56, 43, 0)	(56, 43, 0)	(56, 43, 0)	(51, 48, 0)

TABLE 16 (continued)

TOTAL EMISSIONS OF DESIGNATED AREA
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: MISSOULA LOCATION: RURAL

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)					
		JUL	AUG	SEP	OCT	NOV	DEC
TSP	7.5E 04	8.6E 03	8.6E 03	7.3E 03	7.3E 03	7.3E 03	3.3E 03
	(1, 0, 98)	(0, 0, 98)	(0, 0, 98)	(1, 0, 98)	(1, 0, 98)	(1, 0, 98)	(2, 0, 96)
RSP	2.4E 04	2.7E 03	2.7E 03	2.3E 03	2.3E 03	2.3E 03	1.1E 03
	(3, 0, 95)	(2, 0, 96)	(2, 0, 96)	(3, 0, 96)	(3, 0, 96)	(3, 0, 95)	(7, 1, 91)
PB	8.9E 00	7.1E-01	7.1E-01	7.3E-01	7.3E-01	7.3E-01	6.3E-01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
AS	1.9E-01	2.1E-02	2.1E-02	1.8E-02	1.8E-02	1.8E-02	8.1E-03
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CD	1.1E-01	1.1E-02	1.1E-02	1.0E-02	1.0E-02	1.0E-02	6.3E-03
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 1, 98)
V	7.4E 00	8.5E-01	8.5E-01	7.1E-01	7.1E-01	7.1E-01	3.1E-01
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)
CU	2.0E 01	2.1E 00	2.1E 00	1.8E 00	1.8E 00	1.8E 00	1.1E 00
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)
FE	1.1E 03	1.2E 02	1.2E 02	1.1E 02	1.1E 02	1.0E 02	5.1E 01
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)
AL	3.8E 03	4.4E 02	4.4E 02	3.6E 02	3.6E 02	3.6E 02	1.6E 02
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)
ZN	6.9E 00	6.8E-01	6.8E-01	6.2E-01	6.2E-01	6.1E-01	3.8E-01
	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
SO2	1.8E 03	1.4E 02	1.5E 02	1.5E 02	1.5E 02	1.6E 02	1.6E 02
	(85, 14, 0)	(87, 12, 0)	(86, 13, 0)	(87, 12, 0)	(85, 14, 0)	(83, 16, 0)	(83, 16, 0)
H2SO4	3.2E 01	3.2E 00	3.2E 00	2.7E 00	2.7E 00	2.7E 00	2.2E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	1.9E 03	1.7E 02	1.7E 02	1.6E 02	1.6E 02	1.6E 02	1.4E 02
	(17, 82, 0)	(12, 87, 0)	(12, 87, 0)	(17, 82, 0)	(17, 82, 0)	(17, 82, 0)	(24, 75, 0)
NOX	3.5E 03	2.8E 02	2.9E 02	3.0E 02	3.0E 02	3.0E 02	3.0E 02
	(47, 52, 0)	(38, 61, 0)	(38, 61, 0)	(48, 51, 0)	(48, 51, 0)	(48, 51, 0)	(56, 43, 0)
CO	3.1E 04	2.8E 03	2.8E 03	2.6E 03	2.6E 03	2.6E 03	2.4E 03
	(56, 43, 0)	(51, 48, 0)	(51, 48, 0)	(56, 43, 0)	(56, 43, 0)	(56, 43, 0)	(61, 38, 0)

TABLE 17

TOTAL EMISSIONS OF DESIGNATED AREA
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: YELLOWSTONE LOCATION: RURAL

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)					
		JAN	FEB	MAR	APR	MAY	JUN
TSP	1.3E 05	6.0E 03	6.0E 03	1.1E 04	1.1E 04	1.0E 04	1.5E 04
	(0, 0, 99)	(0, 0, 98)	(0, 0, 98)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
RSP	4.1E 04	1.9E 03	1.9E 03	3.3E 03	3.3E 03	3.2E 03	4.9E 03
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
PB	3.7E 00	1.5E-01	1.5E-01	3.7E-01	3.7E-01	2.5E-01	3.7E-01
	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)	(0, 0, 99)	(0, 0, 99)	(0, 1, 98)	(0, 1, 99)
AS	6.2E-01	2.5E-02	2.5E-02	6.1E-02	6.1E-02	4.3E-02	6.5E-02
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CD	4.5E-01	2.0E-02	2.0E-02	3.8E-02	3.8E-02	3.4E-02	5.1E-02
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
V	1.3E 01	5.7E-01	5.7E-01	1.2E 00	1.2E 00	9.8E-01	1.5E 00
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CU	3.4E 01	1.5E 00	1.5E 00	3.1E 00	3.1E 00	2.4E 00	3.7E 00
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
FE	3.0E 03	1.2E 02	1.2E 02	3.1E 02	3.1E 02	2.1E 02	3.1E 02
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
AL	8.1E 03	3.2E 02	3.2E 02	8.1E 02	8.1E 02	5.5E 02	8.2E 02
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
ZN	1.5E 01	6.1E-01	6.1E-01	1.6E 00	1.6E 00	1.0E 00	1.6E 00
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
SO2	7.8E 03	6.5E 02	6.5E 02	6.5E 02	6.5E 02	6.5E 02	6.5E 02
	(96, 3, 0)	(96, 3, 0)	(97, 2, 0)	(96, 3, 0)	(97, 3, 0)	(97, 2, 0)	(96, 3, 0)
H2SO4	3.6E 01	2.4E 00	2.4E 00	3.0E 00	3.0E 00	3.0E 00	3.6E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	2.8E 03	2.0E 02	2.0E 02	2.3E 02	2.3E 02	2.3E 02	2.6E 02
	(36, 63, 0)	(41, 58, 0)	(41, 58, 0)	(36, 63, 0)	(36, 63, 0)	(36, 63, 0)	(32, 67, 0)
NOX	2.9E 03	2.2E 02	2.1E 02	2.4E 02	2.4E 02	2.4E 02	2.7E 02
	(29, 70, 0)	(33, 66, 0)	(33, 66, 0)	(29, 70, 0)	(29, 70, 0)	(29, 70, 0)	(26, 73, 0)
CO	1.5E 04	1.0E 03	1.0E 03	1.3E 03	1.3E 03	1.3E 03	1.5E 03
	(0, 99, 0)	(0, 99, 0)	(0, 99, 0)	(0, 99, 0)	(0, 99, 0)	(0, 99, 0)	(0, 99, 0)

TABLE 17 (continued)

TOTAL EMISSIONS OF DESIGNATED AREA
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: YELLOWSTONE LOCATION: RURAL

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)						
		JUL	AUG	SEP	OCT	NOV	DEC	
TSP	1.3E 05	1.5E 04	1.5E 04	1.2E 04	1.2E 04	1.2E 04	6.0E 03	
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 98)	
RSP	4.1E 04	4.9E 03	4.9E 03	3.8E 03	3.8E 03	3.7E 03	1.9E 03	
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	
PB	3.7E 00	3.7E-01	3.7E-01	4.1E-01	4.1E-01	2.8E-01	1.5E-01	
	(0, 1, 98)	(0, 1, 99)	(0, 1, 99)	(0, 0, 99)	(0, 0, 99)	(0, 1, 98)	(0, 1, 98)	
AS	6.2E-01	6.5E-02	6.5E-02	6.9E-02	6.9E-02	5.0E-02	2.5E-02	
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	
CD	4.5E-01	5.1E-02	5.1E-02	4.4E-02	4.4E-02	4.0E-02	2.0E-02	
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	
V	1.3E 01	1.5E 00	1.5E 00	1.3E 00	1.3E 00	1.1E 00	5.7E-01	
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	
CU	3.4E 01	3.7E 00	3.7E 00	3.4E 00	3.4E 00	2.8E 00	1.5E 00	
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	
FE	3.0E 03	3.1E 02	3.1E 02	3.5E 02	3.5E 02	2.4E 02	1.2E 02	
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	
AL	8.1E 03	8.2E 02	8.2E 02	9.1E 02	9.1E 02	6.5E 02	3.2E 02	
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	
ZN	1.5E 01	1.6E 00	1.6E 00	1.7E 00	1.7E 00	1.2E 00	6.1E-01	
	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	
SO2	7.8E 03	6.5E 02	6.5E 02	6.5E 02	6.5E 02	6.5E 02	6.5E 02	
	(96, 3, 0)	(96, 3, 0)	(96, 3, 0)	(97, 2, 0)	(96, 3, 0)	(96, 3, 0)	(97, 2, 0)	
H2SO4	3.6E 01	3.6E 00	3.6E 00	3.0E 00	3.0E 00	3.0E 00	2.4E 00	
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	
HC	2.8E 03	2.6E 02	2.6E 02	2.3E 02	2.3E 02	2.3E 02	2.0E 02	
	(36, 63, 0)	(32, 67, 0)	(32, 67, 0)	(36, 63, 0)	(36, 63, 0)	(36, 63, 0)	(41, 58, 0)	
NOX	2.9E 03	2.7E 02	2.7E 02	2.4E 02	2.4E 02	2.4E 02	2.1E 02	
	(29, 70, 0)	(26, 73, 0)	(26, 73, 0)	(29, 70, 0)	(29, 70, 0)	(29, 70, 0)	(33, 66, 0)	
CO	1.5E 04	1.5E 03	1.5E 03	1.3E 03	1.3E 03	1.3E 03	1.0E 03	
	(0, 99, 0)	(0, 99, 0)	(0, 99, 0)	(0, 99, 0)	(0, 99, 0)	(0, 99, 0)	(0, 99, 0)	

TABLE 18

TOTAL EMISSIONS(TONS) IN MISSOULA --MISSOULA CATEGORY:RESIDENTIAL FUEL --DISTILLATE OIL

	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TSP	1.9E 00	3.2E-01	2.4E-01	2.5E-01	1.4E-01	9.9E-02	4.7E-02	7.1E-03	3.5E-02	7.5E-02	1.6E-01	2.5E-01	2.9E-01
	(6.2E-03)	(1.7E-02)	(1.2E-02)	(8.4E-03)	(4.9E-03)	(3.4E-03)	(1.7E-03)	(2.5E-04)	(1.3E-03)	(2.8E-03)	(6.1E-03)	(9.3E-03)	(1.5E-02)
RSP	1.8E 00	3.0E-01	2.2E-01	2.3E-01	1.3E-01	9.1E-02	4.4E-02	6.5E-03	3.3E-02	6.9E-02	1.5E-01	2.3E-01	2.6E-01
	(1.5E-02)	(3.9E-02)	(2.8E-02)	(2.0E-02)	(1.2E-02)	(8.3E-03)	(4.4E-03)	(6.6E-04)	(3.3E-03)	(7.1E-03)	(1.5E-02)	(2.3E-02)	(3.4E-02)
PB	9.2E-08	1.5E-08	1.1E-08	1.2E-08	6.9E-09	4.8E-09	2.3E-09	3.4E-10	1.7E-09	3.6E-09	7.8E-09	1.2E-08	1.4E-08
	(6.3E-07)	(1.3E-06)	(9.9E-07)	(7.4E-07)	(4.3E-07)	(3.0E-07)	(2.3E-07)	(3.4E-08)	(1.7E-07)	(3.2E-07)	(6.8E-07)	(1.0E-06)	(1.2E-06)
AS	1.2E-06	2.1E-07	1.5E-07	1.6E-07	9.2E-08	6.4E-08	3.0E-09	4.5E-09	2.3E-08	4.8E-08	1.0E-07	1.6E-07	1.8E-07
	(1.7E-03)	(4.7E-03)	(3.4E-03)	(2.3E-03)	(1.4E-03)	(9.4E-04)	(4.8E-04)	(7.1E-05)	(3.6E-04)	(7.9E-04)	(1.7E-03)	(2.6E-03)	(4.1E-03)
CD	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
V	5.3E-05	9.0E-06	6.6E-06	6.9E-06	4.0E-06	2.8E-06	1.3E-06	2.0E-07	9.9E-07	2.1E-06	4.5E-06	6.9E-06	8.0E-06
	(1.9E-03)	(5.4E-03)	(4.0E-03)	(2.7E-03)	(1.6E-03)	(1.1E-03)	(5.1E-04)	(7.6E-05)	(3.8E-04)	(8.7E-04)	(1.9E-03)	(2.9E-03)	(4.8E-03)
CU	9.2E-08	1.5E-08	1.1E-08	1.2E-08	6.9E-09	4.8E-09	2.3E-09	3.4E-10	1.7E-09	3.6E-09	7.8E-09	1.2E-08	1.4E-08
	(8.2E-07)	(1.9E-06)	(1.4E-06)	(1.0E-06)	(5.8E-07)	(4.0E-07)	(2.8E-07)	(4.1E-08)	(2.1E-07)	(4.1E-07)	(8.7E-07)	(1.3E-06)	(1.6E-06)
FE	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
AL	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
ZN	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
SO2	1.1E 02	1.8E 01	1.3E 01	1.4E 01	8.0E 00	5.6E 00	2.7E 00	4.0E-01	2.0E 00	4.2E 00	9.1E 00	1.4E 01	1.6E 01
	(3.4E 01)	(5.5E 01)	(4.7E 01)	(4.4E 01)	(3.2E 01)	(2.4E 01)	(1.2E 01)	(1.9E 00)	(8.9E 00)	(2.0E 01)	(3.4E 01)	(4.4E 01)	(5.2E 01)
SO4=	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2S	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2SO4	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
HC	7.6E-01	1.3E-01	9.4E-02	9.8E-02	5.7E-02	4.0E-02	1.9E-02	2.8E-03	1.4E-02	3.0E-02	6.5E-02	9.9E-02	1.1E-01
	(3.9E-02)	(9.7E-02)	(7.1E-02)	(6.1E-02)	(3.6E-02)	(2.5E-02)	(9.9E-03)	(1.5E-03)	(7.4E-03)	(1.9E-02)	(4.0E-02)	(6.1E-02)	(8.7E-02)
NOX	1.4E 01	2.3E 00	1.7E 00	1.8E 00	1.0E 00	7.1E-01	3.4E-01	5.1E-02	2.6E-01	5.4E-01	1.2E 00	1.8E 00	2.1E 00
	(6.1E-01)	(1.4E 00)	(1.1E 00)	(9.3E-01)	(5.6E-01)	(3.9E-01)	(1.6E-01)	(2.4E-02)	(1.2E-01)	(3.0E-01)	(6.3E-01)	(9.4E-01)	(1.3E 00)
CO	3.8E 00	6.4E-01	4.7E-01	4.9E-01	2.9E-01	2.0E-01	9.5E-02	1.4E-02	7.1E-02	1.5E-01	3.2E-01	5.0E-01	5.7E-01
	(2.4E-02)	(6.1E-02)	(4.5E-02)	(3.7E-02)	(2.2E-02)	(1.5E-02)	(6.1E-03)	(9.0E-04)	(4.5E-03)	(1.2E-02)	(2.5E-02)	(3.8E-02)	(5.4E-02)

VALUES IN PARENTHESIS ARE PERCENTAGES OF TOTAL EMISSIONS OF THE DESIGNATED AREA FOR THE INDICATED TIME PERIOD.

TABLE 18 (continued)

TOTAL EMISSIONS(TONS) IN MISSOULA --MISSOULA CATEGORY:RESIDENTIAL FUEL --NATURAL GAS

	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TSP	9.9E 00	1.7E 00	1.2E 00	1.3E 00	7.6E-01	5.1E-01	2.4E-01	3.3E-02	1.9E-01	4.0E-01	8.4E-01	1.3E 00	1.5E 00
	(3.2E-02)	(8.7E-02)	(6.3E-02)	(4.4E-02)	(2.6E-02)	(1.8E-02)	(8.6E-03)	(1.2E-03)	(6.7E-03)	(1.5E-02)	(3.1E-02)	(4.9E-02)	(7.8E-02)
RSP	8.9E 00	1.5E 00	1.1E 00	1.1E 00	6.8E-01	4.6E-01	2.2E-01	2.9E-02	1.7E-01	3.6E-01	7.5E-01	1.2E 00	1.4E 00
	(7.7E-02)	(2.0E-01)	(1.4E-01)	(1.0E-01)	(6.2E-02)	(4.2E-02)	(2.2E-02)	(3.0E-03)	(1.7E-02)	(3.6E-02)	(7.6E-02)	(1.2E-01)	(1.8E-01)
PB	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
AS	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CD	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
V	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CU	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
FE	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
AL	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
ZN	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
SO2	6.0E-01	1.0E-01	7.3E-02	7.6E-02	4.5E-02	3.1E-02	1.5E-02	2.0E-03	1.1E-02	2.4E-02	5.0E-02	7.8E-02	9.0E-02
	(1.9E-01)	(3.1E-01)	(2.6E-01)	(2.4E-01)	(1.8E-01)	(1.3E-01)	(6.4E-02)	(9.5E-03)	(5.1E-02)	(1.1E-01)	(1.9E-01)	(2.5E-01)	(3.0E-01)
SO4=	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2S	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2SO4	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
HC	7.9E 00	1.3E 00	9.7E-01	1.0E 00	6.1E-01	4.1E-01	1.9E-01	2.6E-02	1.5E-01	3.2E-01	6.7E-01	1.0E 00	1.2E 00
	(4.1E-01)	(1.0E 00)	(7.3E-01)	(6.3E-01)	(3.8E-01)	(2.5E-01)	(1.0E-01)	(1.4E-02)	(7.8E-02)	(2.0E-01)	(4.1E-01)	(6.4E-01)	(9.1E-01)
NOX	7.9E 01	1.3E 01	9.7E 00	1.0E 01	6.1E 00	4.1E 00	1.9E 00	2.6E-01	1.5E 00	3.2E 00	6.7E 00	1.0E 01	1.2E 01
	(3.6E 00)	(8.2E 00)	(6.1E 00)	(5.4E 00)	(3.3E 00)	(2.2E 00)	(9.2E-01)	(1.2E-01)	(7.1E-01)	(1.7E 00)	(3.6E 00)	(5.5E 00)	(7.5E 00)
CO	2.0E 01	3.3E 00	2.4E 00	2.5E 00	1.5E 00	1.0E 00	4.9E-01	6.5E-02	3.8E-01	7.9E-01	1.7E 00	2.6E 00	3.0E 00
	(1.3E-01)	(3.2E-01)	(2.3E-01)	(1.9E-01)	(1.2E-01)	(7.9E-02)	(3.1E-02)	(4.2E-03)	(2.4E-02)	(6.0E-02)	(1.3E-01)	(2.0E-01)	(2.9E-01)

VALUES IN PARENTHESIS ARE PERCENTAGES OF TOTAL EMISSIONS OF THE DESIGNATED AREA FOR THE INDICATED TIME PERIOD.

TABLE 18 (continued)

TOTAL EMISSIONS(TONS) IN MISSOULA --MISSOULA CATEGORY:RESIDENTIAL FUEL --HOME FIREPLACES

	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TSP	6.1E 01	1.2E 01	1.2E 01	6.2E 00	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	6.2E 00	1.2E 01	1.2E 01
	(2.0E-01)	(6.4E-01)	(6.4E-01)	(2.1E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(2.3E-01)	(4.6E-01)	(6.4E-01)
RSP	3.2E 01	6.4E 00	6.4E 00	3.2E 00	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	3.2E 00	6.4E 00	6.4E 00
	(2.8E-01)	(8.3E-01)	(8.3E-01)	(2.9E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(3.3E-01)	(6.4E-01)	(8.3E-01)
PB	6.1E-03	1.2E-03	1.2E-03	6.2E-04	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	6.2E-04	1.2E-03	1.2E-03
	(4.2E-02)	(1.1E-01)	(1.1E-01)	(3.9E-02)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(5.4E-02)	(1.1E-01)	(1.1E-01)
AS	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CD	3.4E-04	6.9E-05	6.9E-05	3.5E-05	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	3.5E-05	6.9E-05	6.9E-05
	(2.2E-01)	(5.8E-01)	(5.8E-01)	(2.1E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(2.8E-01)	(5.6E-01)	(5.8E-01)
V	2.5E-04	4.9E-05	4.9E-05	2.5E-05	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	2.5E-05	4.9E-05	4.9E-05
	(8.8E-03)	(3.0E-02)	(3.0E-02)	(9.5E-03)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(1.0E-02)	(2.0E-02)	(3.0E-02)
CU	3.9E-03	7.8E-04	7.8E-04	4.0E-04	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	4.0E-04	7.8E-04	7.8E-04
	(3.5E-02)	(9.4E-02)	(9.4E-02)	(3.3E-02)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(4.4E-02)	(8.8E-02)	(9.4E-02)
FE	1.3E-01	2.5E-02	2.5E-02	1.3E-02	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	1.3E-02	2.5E-02	2.5E-02
	(2.2E-02)	(7.0E-02)	(7.0E-02)	(2.3E-02)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(2.6E-02)	(5.1E-02)	(7.0E-02)
AL	9.6E-01	1.9E-01	1.9E-01	9.7E-02	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	9.7E-02	1.9E-01	1.9E-01
	(6.6E-02)	(2.2E-01)	(2.2E-01)	(7.2E-02)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(7.7E-02)	(1.5E-01)	(2.2E-01)
ZN	2.9E-02	5.9E-03	5.9E-03	3.0E-03	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	3.0E-03	5.9E-03	5.9E-03
	(5.5E-01)	(1.5E 00)	(1.5E 00)	(5.2E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(6.9E-01)	(1.4E 00)	(1.5E 00)
SO2	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
SO4=	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2S	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2SO4	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
HC	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
NOX	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CO	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)

VALUES IN PARENTHESIS ARE PERCENTAGES OF TOTAL EMISSIONS OF THE DESIGNATED AREA FOR THE INDICATED TIME PERIOD.

TABLE 18 (continued)

TOTAL EMISSIONS(TONS) IN MISSOULA --MISSOULA CATEGORY:GASOLINE FUEL EXHAUST --LIGHT DUTY VEHICLES

	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TSP	1.2E 02	7.9E 00	7.9E 00	9.8E 00	9.8E 00	9.8E 00	1.2E 01	1.2E 01	1.2E 01	9.8E 00	9.8E 00	9.8E 00	7.9E 00
	(3.8E-01)	(4.1E-01)	(4.1E-01)	(3.4E-01)	(3.4E-01)	(3.4E-01)	(4.2E-01)	(4.2E-01)	(4.2E-01)	(3.7E-01)	(3.7E-01)	(3.7E-01)	(4.1E-01)
RSP	1.1E 02	7.1E 00	7.1E 00	8.9E 00	8.9E 00	8.9E 00	1.1E 01	1.1E 01	1.1E 01	8.9E 00	8.9E 00	8.9E 00	7.1E 00
	(9.3E-01)	(9.3E-01)	(9.3E-01)	(8.1E-01)	(8.1E-01)	(8.1E-01)	(1.1E 00)	(1.1E 00)	(1.1E 00)	(9.1E-01)	(9.1E-01)	(9.0E-01)	(9.3E-01)
PB	4.4E-02	2.9E-03	2.9E-03	3.6E-03	3.6E-03	3.6E-03	4.4E-03	4.4E-03	4.4E-03	3.6E-03	3.6E-03	3.6E-03	2.9E-03
	(3.0E-01)	(2.5E-01)	(2.5E-01)	(2.3E-01)	(2.3E-01)	(2.3E-01)	(4.4E-01)	(4.4E-01)	(4.4E-01)	(3.2E-01)	(3.2E-01)	(3.2E-01)	(2.5E-01)
AS	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CD	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
V	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CU	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
FE	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
AL	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
ZN	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
SO2	2.8E 01	1.9E 00	1.9E 00	2.4E 00	2.4E 00	2.4E 00	2.8E 00	2.8E 00	2.8E 00	2.4E 00	2.4E 00	2.4E 00	1.9E 00
	(9.0E 00)	(5.8E 00)	(6.8E 00)	(7.6E 00)	(9.3E 00)	(1.0E 01)	(1.2E 01)	(1.4E 01)	(1.3E 01)	(1.1E 01)	(8.9E 00)	(7.6E 00)	(6.2E 00)
SO4=	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2S	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2SO4	6.6E 01	4.4E 00	4.4E 00	5.5E 00	5.5E 00	5.5E 00	6.6E 00	6.6E 00	6.6E 00	5.5E 00	5.5E 00	5.5E 00	4.4E 00
	(1.0E 02)	(1.0E 02)	(1.0E 02)	(1.0E 02)	(1.0E 02)	(1.0E 02)	(1.0E 02)	(1.0E 02)	(1.0E 02)	(1.0E 02)	(1.0E 02)	(1.0E 02)	(1.0E 02)
HC	4.8E 02	3.2E 01	3.2E 01	4.0E 01	4.0E 01	4.0E 01	4.8E 01	4.8E 01	4.8E 01	4.0E 01	4.0E 01	4.0E 01	3.2E 01
	(2.5E 01)	(2.4E 01)	(2.4E 01)	(2.5E 01)	(2.5E 01)	(2.5E 01)	(2.5E 01)	(2.5E 01)	(2.5E 01)	(2.5E 01)	(2.5E 01)	(2.5E 01)	(2.4E 01)
NOX	6.1E 02	4.1E 01	4.1E 01	5.1E 01	5.1E 01	5.1E 01	6.1E 01	6.1E 01	6.1E 01	5.1E 01	5.1E 01	5.1E 01	4.1E 01
	(2.7E 01)	(2.5E 01)	(2.6E 01)	(2.7E 01)	(2.8E 01)	(2.8E 01)	(2.9E 01)	(2.9E 01)	(2.9E 01)	(2.8E 01)	(2.7E 01)	(2.7E 01)	(2.5E 01)
CO	7.0E 03	4.7E 02	4.7E 02	5.8E 02	5.8E 02	5.8E 02	7.0E 02	7.0E 02	7.0E 02	5.8E 02	5.8E 02	5.8E 02	4.7E 02
	(4.5E 01)	(4.4E 01)	(4.4E 01)	(4.5E 01)	(4.5E 01)	(4.5E 01)	(4.5E 01)	(4.5E 01)	(4.5E 01)	(4.5E 01)	(4.5E 01)	(4.5E 01)	(4.4E 01)

VALUES IN PARENTHESIS ARE PERCENTAGES OF TOTAL EMISSIONS OF THE DESIGNATED AREA FOR THE INDICATED TIME PERIOD.

TABLE 18 (continued)

TOTAL EMISSIONS(TONS) IN MISSOULA --MISSOULA CATEGORY:GASOLINE FUEL EXHAUST --HEAVY DUTY VEHICLES

	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TSP	2.6E 01	1.7E 00	1.7E 00	2.2E 00	2.2E 00	2.2E 00	2.6E 00	2.6E 00	2.6E 00	2.2E 00	2.2E 00	2.2E 00	1.7E 00
	(8.4E-02)	(9.0E-02)	(9.0E-02)	(7.4E-02)	(7.5E-02)	(7.5E-02)	(9.2E-02)	(9.2E-02)	(9.2E-02)	(8.2E-02)	(8.2E-02)	(8.1E-02)	(9.0E-02)
RSP	2.3E 01	1.6E 00	1.6E 00	2.0E 00	2.0E 00	2.0E 00	2.3E 00	2.3E 00	2.3E 00	2.0E 00	2.0E 00	2.0E 00	1.6E 00
	(2.0E-01)	(2.0E-01)	(2.0E-01)	(1.8E-01)	(1.8E-01)	(1.8E-01)	(2.4E-01)	(2.4E-01)	(2.4E-01)	(2.0E-01)	(2.0E-01)	(2.0E-01)	(2.0E-01)
PB	8.6E-03	5.7E-04	5.7E-04	7.1E-04	7.1E-04	7.1E-04	8.6E-04	8.6E-04	8.6E-04	7.1E-04	7.1E-04	7.1E-04	5.7E-04
	(5.9E-02)	(5.0E-02)	(5.0E-02)	(4.5E-02)	(4.5E-02)	(4.5E-02)	(8.7E-02)	(8.7E-02)	(8.7E-02)	(6.3E-02)	(6.3E-02)	(6.3E-02)	(5.0E-02)
AS	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CD	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
V	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CU	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
FE	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
AL	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
ZN	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
SO2	1.0E 01	6.9E-01	6.9E-01	8.6E-01	8.6E-01	8.6E-01	1.0E 00	1.0E 00	1.0E 00	8.6E-01	8.6E-01	8.6E-01	6.9E-01
	(3.3E 00)	(2.1E 00)	(2.5E 00)	(2.7E 00)	(3.4E 00)	(3.7E 00)	(4.5E 00)	(5.0E 00)	(4.6E 00)	(4.0E 00)	(3.2E 00)	(2.7E 00)	(2.2E 00)
SO4=	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2S	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2SO4	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
HC	7.1E 02	4.8E 01	4.8E 01	6.0E 01	6.0E 01	6.0E 01	7.1E 01	7.1E 01	7.1E 01	6.0E 01	6.0E 01	6.0E 01	4.9E 01
	(3.7E 01)	(3.6E 01)	(3.6E 01)	(3.7E 01)	(3.7E 01)	(3.7E 01)	(3.7E 01)	(3.7E 01)	(3.7E 01)	(3.7E 01)	(3.7E 01)	(3.7E 01)	(3.6E 01)
NOX	3.1E 02	2.1E 01	2.1E 01	2.6E 01	2.6E 01	2.6E 01	3.1E 01	3.1E 01	3.1E 01	2.6E 01	2.6E 01	2.6E 01	2.1E 01
	(1.4E 01)	(1.3E 01)	(1.3E 01)	(1.4E 01)	(1.4E 01)	(1.4E 01)	(1.5E 01)	(1.5E 01)	(1.5E 01)	(1.4E 01)	(1.4E 01)	(1.4E 01)	(1.3E 01)
CO	7.1E 03	4.8E 02	4.8E 02	6.0E 02	6.0E 02	6.0E 02	7.1E 02	7.1E 02	7.1E 02	6.0E 02	6.0E 02	6.0E 02	4.8E 02
	(4.5E 01)	(4.5E 01)	(4.5E 01)	(4.5E 01)	(4.5E 01)	(4.6E 01)	(4.6E 01)	(4.6E 01)	(4.6E 01)	(4.6E 01)	(4.5E 01)	(4.5E 01)	(4.5E 01)

VALUES IN PARENTHESIS ARE PERCENTAGES OF TOTAL EMISSIONS OF THE DESIGNATED AREA FOR THE INDICATED TIME PERIOD.

TOTAL EMISSIONS(TONS) IN MISSOULA --MISSOULA CATEGORY:DIESEL FUEL EXHAUST --HEAVY DUTY VEHICLES

	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TSP	6.2E 01	4.2E 00	4.2E 00	5.2E 00	5.2E 00	5.2E 00	6.2E 00	6.2E 00	6.2E 00	5.2E 00	5.2E 00	5.2E 00	4.2E 00
	(2.0E-01)	(2.2E-01)	(2.2E-01)	(1.8E-01)	(1.8E-01)	(1.9E-01)	(2.2E-01)	(2.2E-01)	(2.2E-01)	(2.0E-01)	(2.0E-01)	(2.0E-01)	(2.2E-01)
RSP	5.8E 01	3.8E 00	3.8E 00	4.8E 00	4.8E 00	4.8E 00	5.8E 00	5.8E 00	5.8E 00	4.8E 00	4.8E 00	4.8E 00	3.8E 00
	(5.0E-01)	(5.0E-01)	(5.0E-01)	(4.3E-01)	(4.3E-01)	(4.3E-01)	(5.8E-01)	(5.8E-01)	(5.8E-01)	(4.9E-01)	(4.9E-01)	(4.8E-01)	(5.0E-01)
PB	1.4E-04	9.6E-06	9.6E-06	1.2E-05	1.2E-05	1.2E-05	1.4E-05	1.4E-05	1.4E-05	1.2E-05	1.2E-05	1.2E-05	9.6E-06
	(9.9E-04)	(8.4E-04)	(8.4E-04)	(7.5E-04)	(7.5E-04)	(7.5E-04)	(1.5E-03)	(1.5E-03)	(1.5E-03)	(1.1E-03)	(1.1E-03)	(1.1E-03)	(8.4E-04)
AS	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CD	4.3E-04	2.9E-05	2.9E-05	3.6E-05	3.6E-05	3.6E-05	4.3E-05	4.3E-05	4.3E-05	3.6E-05	3.6E-05	3.6E-05	2.9E-05
	(2.4E-01)	(2.4E-01)	(2.4E-01)	(2.2E-01)	(2.2E-01)	(2.2E-01)	(3.9E-01)	(3.9E-01)	(3.9E-01)	(2.9E-01)	(2.9E-01)	(2.9E-01)	(2.4E-01)
V	1.4E-04	9.6E-06	9.6E-06	1.2E-05	1.2E-05	1.2E-05	1.4E-05	1.4E-05	1.4E-05	1.2E-05	1.2E-05	1.2E-05	9.6E-06
	(5.2E-03)	(5.8E-03)	(5.8E-03)	(4.6E-03)	(4.6E-03)	(4.6E-03)	(5.6E-03)	(5.6E-03)	(5.6E-03)	(4.9E-03)	(4.9E-03)	(4.9E-03)	(5.8E-03)
CU	2.4E-05	1.6E-06	1.6E-06	2.0E-06	2.0E-06	2.0E-06	2.4E-06	2.4E-06	2.4E-06	2.0E-06	2.0E-06	2.0E-06	1.6E-06
	(2.1E-04)	(1.9E-04)	(1.9E-04)	(1.7E-04)	(1.7E-04)	(1.7E-04)	(2.9E-04)	(2.9E-04)	(2.9E-04)	(2.2E-04)	(2.2E-04)	(2.2E-04)	(1.9E-04)
FE	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
AL	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
ZN	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
SO2	1.3E 02	9.0E 00	9.0E 00	1.1E 01	1.1E 01	1.1E 01	1.3E 01	1.3E 01	1.3E 01	1.1E 01	1.1E 01	1.1E 01	9.0E 00
	(4.2E 01)	(2.7E 01)	(3.2E 01)	(3.6E 01)	(4.4E 01)	(4.9E 01)	(5.9E 01)	(6.5E 01)	(6.0E 01)	(5.2E 01)	(4.2E 01)	(3.6E 01)	(2.9E 01)
SO4=	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2S	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2SO4	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
HC	2.2E 02	1.4E 01	1.4E 01	1.8E 01	1.8E 01	1.8E 01	2.2E 01	2.2E 01	2.2E 01	1.8E 01	1.8E 01	1.8E 01	1.4E 01
	(1.1E 01)	(1.1E 01)	(1.1E 01)	(1.1E 01)	(1.1E 01)	(1.1E 01)	(1.1E 01)	(1.1E 01)	(1.1E 01)	(1.1E 01)	(1.1E 01)	(1.1E 01)	(1.1E 01)
NOX	9.6E 02	6.4E 01	6.4E 01	8.0E 01	8.0E 01	8.0E 01	9.6E 01	9.6E 01	9.6E 01	8.0E 01	8.0E 01	8.0E 01	6.4E 01
	(4.3E 01)	(3.9E 01)	(4.0E 01)	(4.2E 01)	(4.3E 01)	(4.4E 01)	(4.5E 01)	(4.6E 01)	(4.5E 01)	(4.4E 01)	(4.3E 01)	(4.2E 01)	(4.0E 01)
CO	1.3E 03	8.6E 01	8.6E 01	1.1E 02	1.1E 02	1.1E 02	1.3E 02	1.3E 02	1.3E 02	1.1E 02	1.1E 02	1.1E 02	8.6E 01
	(8.2E 00)	(8.2E 00)	(8.2E 00)	(8.2E 00)	(8.2E 00)	(8.2E 00)	(8.3E 00)	(8.3E 00)	(8.3E 00)	(8.3E 00)	(8.2E 00)	(8.2E 00)	(8.2E 00)

VALUES IN PARENTHESIS ARE PERCENTAGES OF TOTAL EMISSIONS OF THE DESIGNATED AREA FOR THE INDICATED TIME PERIOD.

TABLE 18 (continued)

TOTAL EMISSIONS(TONS) IN MISSOULA --MISSOULA CATEGORY:DIESEL FUEL EXHAUST --RAILROAD LOCOMOTIVE

	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TSP	3.9E 00	3.3E-01	3.3E-01	3.3E-01	3.3E-01	3.3E-01	3.3E-01	3.3E-01	3.3E-01	3.3E-01	3.3E-01	3.3E-01	3.3E-01
	(1.3E-02)	(1.7E-02)	(1.7E-02)	(1.1E-02)	(1.1E-02)	(1.1E-02)	(1.2E-02)	(1.2E-02)	(1.2E-02)	(1.2E-02)	(1.2E-02)	(1.2E-02)	(1.7E-02)
RSP	3.6E 00	3.0E-01	3.0E-01	3.0E-01	3.0E-01	3.0E-01	3.0E-01	3.0E-01	3.0E-01	3.0E-01	3.0E-01	3.0E-01	3.0E-01
	(3.1E-02)	(3.9E-02)	(3.9E-02)	(2.7E-02)	(2.7E-02)	(2.7E-02)	(3.0E-02)	(3.0E-02)	(3.0E-02)	(3.1E-02)	(3.0E-02)	(3.0E-02)	(3.9E-02)
PB	4.7E-06	3.9E-07	3.9E-07	3.9E-07	3.9E-07	3.9E-07	3.9E-07	3.9E-07	3.9E-07	3.9E-07	3.9E-07	3.9E-07	3.9E-07
	(3.2E-05)	(3.4E-05)	(3.4E-05)	(2.5E-05)	(2.5E-05)	(2.5E-05)	(4.0E-05)	(4.0E-05)	(4.0E-05)	(3.4E-05)	(3.4E-05)	(3.4E-05)	(3.4E-05)
AS	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CD	3.1E-05	2.6E-06	2.6E-06	2.6E-06	2.6E-06	2.6E-06	2.6E-06	2.6E-06	2.6E-06	2.6E-06	2.6E-06	2.6E-06	2.6E-06
	(2.0E-02)	(2.2E-02)	(2.2E-02)	(1.6E-02)	(1.6E-02)	(1.6E-02)	(2.4E-02)	(2.4E-02)	(2.4E-02)	(2.1E-02)	(2.1E-02)	(2.1E-02)	(2.2E-02)
V	4.7E-07	3.9E-08	3.9E-08	3.9E-08	3.9E-08	3.9E-08	3.9E-08	3.9E-08	3.9E-08	3.9E-08	3.9E-08	3.9E-08	3.9E-08
	(1.7E-05)	(2.4E-05)	(2.4E-05)	(1.5E-05)	(1.5E-05)	(1.5E-05)	(1.5E-05)	(1.5E-05)	(1.5E-05)	(1.6E-05)	(1.6E-05)	(1.6E-05)	(2.4E-05)
CU	1.6E-06	1.3E-07	1.3E-07	1.3E-07	1.3E-07	1.3E-07	1.3E-07	1.3E-07	1.3E-07	1.3E-07	1.3E-07	1.3E-07	1.3E-07
	(1.4E-05)	(1.6E-05)	(1.6E-05)	(1.1E-05)	(1.1E-05)	(1.1E-05)	(1.6E-05)	(1.6E-05)	(1.6E-05)	(1.5E-05)	(1.5E-05)	(1.5E-05)	(1.6E-05)
FE	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
AL	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
ZN	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
SO2	8.9E 00	7.4E-01	7.4E-01	7.4E-01	7.4E-01	7.4E-01	7.4E-01	7.4E-01	7.4E-01	7.4E-01	7.4E-01	7.4E-01	7.4E-01
	(2.8E 00)	(2.3E 00)	(2.7E 00)	(2.4E 00)	(2.9E 00)	(3.2E 00)	(3.2E 00)	(3.6E 00)	(3.3E 00)	(3.4E 00)	(2.8E 00)	(2.4E 00)	(2.4E 00)
SO4=	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2S	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2SO4	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
HC	1.5E 01	1.2E 00	1.2E 00	1.2E 00	1.2E 00	1.2E 00	1.2E 00	1.2E 00	1.2E 00	1.2E 00	1.2E 00	1.2E 00	1.2E 00
	(7.6E-01)	(9.3E-01)	(9.3E-01)	(7.6E-01)	(7.6E-01)	(7.6E-01)	(6.4E-01)	(6.4E-01)	(6.4E-01)	(7.6E-01)	(7.6E-01)	(7.6E-01)	(9.3E-01)
NOX	5.8E 01	4.8E 00	4.8E 00	4.8E 00	4.8E 00	4.8E 00	4.8E 00	4.8E 00	4.8E 00	4.8E 00	4.8E 00	4.8E 00	4.8E 00
	(2.6E 00)	(3.0E 00)	(3.0E 00)	(2.5E 00)	(2.6E 00)	(2.6E 00)	(2.3E 00)	(2.3E 00)	(2.3E 00)	(2.6E 00)	(2.6E 00)	(2.5E 00)	(3.0E 00)
CO	2.0E 01	1.7E 00	1.7E 00	1.7E 00	1.7E 00	1.7E 00	1.7E 00	1.7E 00	1.7E 00	1.7E 00	1.7E 00	1.7E 00	1.7E 00
	(1.3E-01)	(1.6E-01)	(1.6E-01)	(1.3E-01)	(1.3E-01)	(1.3E-01)	(1.1E-01)	(1.1E-01)	(1.1E-01)	(1.3E-01)	(1.3E-01)	(1.3E-01)	(1.6E-01)

VALUES IN PARENTHESIS ARE PERCENTAGES OF TOTAL EMISSIONS OF THE DESIGNATED AREA FOR THE INDICATED TIME PERIOD.

TABLE 18 (continued)

TOTAL EMISSIONS(TONS) IN MISSOULA --MISSOULA CATEGORY:EVAPORATION-GASOLINE --FILLING GAS ST. TANKS

	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TSP	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
RSP	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
PB	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
AS	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CD	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
V	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CU	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
FE	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
AL	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
ZN	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
SO2	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
SO4=	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2S	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2SO4	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
HC	1.6E 02	1.1E 01	1.1E 01	1.3E 01	1.3E 01	1.3E 01	1.6E 01	1.6E 01	1.6E 01	1.3E 01	1.3E 01	1.3E 01	1.1E 01
	(8.1E 00)	(8.0E 00)	(8.0E 00)	(8.1E 00)	(8.1E 00)	(8.1E 00)	(8.2E 00)	(8.2E 00)	(8.2E 00)	(8.1E 00)	(8.1E 00)	(8.1E 00)	(8.0E 00)
NOX	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CO	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)

VALUES IN PARENTHESIS ARE PERCENTAGES OF TOTAL EMISSIONS OF THE DESIGNATED AREA FOR THE INDICATED TIME PERIOD.

TABLE 18 (continued)

TOTAL EMISSIONS(TONS) IN MISSOULA --MISSOULA CATEGORY:EVAPORATION-GASOLINE --FILLING GAS T&S AUTO

	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TSP	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
RSP	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
PB	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
AS	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CD	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
V	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CU	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
FE	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
AL	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
ZN	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
SO2	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
SO4=	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2S	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2SO4	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
HC	2.5E 02	1.7E 01	1.7E 01	2.1E 01	2.1E 01	2.1E 01	2.5E 01	2.5E 01	2.5E 01	2.1E 01	2.1E 01	2.1E 01	1.7E 01
	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)
NOX	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CO	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)

VALUES IN PARENTHESIS ARE PERCENTAGES OF TOTAL EMISSIONS OF THE DESIGNATED AREA FOR THE INDICATED TIME PERIOD.

TABLE 18 (continued)

TOTAL EMISSIONS(TONS) IN MISSOULA --MISSOULA CATEGORY:AIRCRAFT COMMERCIAL --JET-2 ENGINES

	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TSP	4.4E-01	3.6E-02	3.6E-02	3.6E-02	3.6E-02	3.6E-02	3.6E-02	3.6E-02	3.6E-02	3.6E-02	3.6E-02	3.6E-02	3.6E-02
	(1.4E-03)	(1.9E-03)	(1.9E-03)	(1.3E-03)	(1.3E-03)	(1.3E-03)	(1.3E-03)	(1.3E-03)	(1.3E-03)	(1.4E-03)	(1.4E-03)	(1.4E-03)	(1.9E-03)
RSP	3.9E-01	3.3E-02	3.3E-02	3.3E-02	3.3E-02	3.3E-02	3.3E-02	3.3E-02	3.3E-02	3.3E-02	3.3E-02	3.3E-02	3.3E-02
	(3.4E-03)	(4.3E-03)	(4.3E-03)	(3.0E-03)	(3.0E-03)	(3.0E-03)	(3.3E-03)	(3.3E-03)	(3.3E-03)	(3.3E-03)	(3.3E-03)	(3.3E-03)	(4.3E-03)
PB	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
AS	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CD	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
V	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CU	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
FE	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
AL	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
ZN	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
SO2	1.1E 00	8.9E-02	8.9E-02	8.9E-02	8.9E-02	8.9E-02	8.9E-02	8.9E-02	8.9E-02	8.9E-02	8.9E-02	8.9E-02	8.9E-02
	(3.4E-01)	(2.7E-01)	(3.2E-01)	(2.8E-01)	(3.5E-01)	(3.9E-01)	(3.9E-01)	(4.3E-01)	(4.0E-01)	(4.1E-01)	(3.4E-01)	(2.8E-01)	(2.9E-01)
SO4=	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2S	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2SO4	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
HC	5.2E 00	4.4E-01	4.4E-01	4.4E-01	4.4E-01	4.4E-01	4.4E-01	4.4E-01	4.4E-01	4.4E-01	4.4E-01	4.4E-01	4.4E-01
	(2.7E-01)	(3.3E-01)	(3.3E-01)	(2.7E-01)	(2.7E-01)	(2.7E-01)	(2.3E-01)	(2.3E-01)	(2.3E-01)	(2.7E-01)	(2.7E-01)	(2.7E-01)	(3.3E-01)
NOX	1.1E 01	8.9E-01	8.9E-01	8.9E-01	8.9E-01	8.9E-01	8.9E-01	8.9E-01	8.9E-01	8.9E-01	8.9E-01	8.9E-01	8.9E-01
	(4.8E-01)	(5.5E-01)	(5.6E-01)	(4.7E-01)	(4.8E-01)	(4.9E-01)	(4.2E-01)	(4.2E-01)	(4.2E-01)	(4.9E-01)	(4.8E-01)	(4.7E-01)	(5.5E-01)
CO	1.8E 01	1.5E 00	1.5E 00	1.5E 00	1.5E 00	1.5E 00	1.5E 00	1.5E 00	1.5E 00	1.5E 00	1.5E 00	1.5E 00	1.5E 00
	(1.2E-01)	(1.4E-01)	(1.4E-01)	(1.2E-01)	(1.2E-01)	(1.2E-01)	(9.6E-02)	(9.7E-02)	(9.6E-02)	(1.2E-01)	(1.2E-01)	(1.2E-01)	(1.4E-01)

VALUES IN PARENTHESIS ARE PERCENTAGES OF TOTAL EMISSIONS OF THE DESIGNATED AREA FOR THE INDICATED TIME PERIOD.

TABLE 18 (continued)

TOTAL EMISSIONS(TONS) IN MISSOULA --MISSOULA CATEGORY:AIRCRAFT COMMERCIAL --JET 3-ENGINES

	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TSP	1.2E 00	9.7E-02	9.7E-02	9.7E-02	9.7E-02	9.7E-02	9.7E-02	9.7E-02	9.7E-02	9.7E-02	9.7E-02	9.7E-02	9.7E-02
	(3.7E-03)	(5.0E-03)	(5.0E-03)	(3.3E-03)	(3.3E-03)	(3.3E-03)	(3.4E-03)	(3.4E-03)	(3.4E-03)	(3.6E-03)	(3.6E-03)	(3.6E-03)	(5.0E-03)
RSP	1.1E 00	8.9E-02	8.9E-02	8.9E-02	8.9E-02	8.9E-02	8.9E-02	8.9E-02	8.9E-02	8.9E-02	8.9E-02	8.9E-02	8.9E-02
	(9.2E-03)	(1.2E-02)	(1.2E-02)	(8.0E-03)	(8.0E-03)	(8.0E-03)	(8.9E-03)	(8.9E-03)	(8.9E-03)	(9.0E-03)	(9.0E-03)	(8.9E-03)	(1.2E-02)
PB	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
AS	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CD	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
V	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CU	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
FE	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
AL	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
ZN	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
SO2	2.9E 00	2.4E-01	2.4E-01	2.4E-01	2.4E-01	2.4E-01	2.4E-01	2.4E-01	2.4E-01	2.4E-01	2.4E-01	2.4E-01	2.4E-01
	(9.1E-01)	(7.4E-01)	(8.7E-01)	(7.7E-01)	(9.5E-01)	(1.0E 00)	(1.0E 00)	(1.2E 00)	(1.1E 00)	(1.1E 00)	(9.1E-01)	(7.7E-01)	(7.9E-01)
SO4=	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2S	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2SO4	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
HC	1.5E 01	1.2E 00	1.2E 00	1.2E 00	1.2E 00	1.2E 00	1.2E 00	1.2E 00	1.2E 00	1.2E 00	1.2E 00	1.2E 00	1.2E 00
	(7.5E-01)	(9.1E-01)	(9.2E-01)	(7.5E-01)	(7.5E-01)	(7.5E-01)	(6.3E-01)	(6.3E-01)	(6.3E-01)	(7.5E-01)	(7.5E-01)	(7.5E-01)	(9.2E-01)
NOX	3.0E 01	2.5E 00	2.5E 00	2.5E 00	2.5E 00	2.5E 00	2.5E 00	2.5E 00	2.5E 00	2.5E 00	2.5E 00	2.5E 00	2.5E 00
	(1.3E 00)	(1.5E 00)	(1.6E 00)	(1.3E 00)	(1.3E 00)	(1.4E 00)	(1.2E 00)	(1.2E 00)	(1.2E 00)	(1.4E 00)	(1.3E 00)	(1.3E 00)	(1.6E 00)
CO	4.9E 01	4.1E 00	4.1E 00	4.1E 00	4.1E 00	4.1E 00	4.1E 00	4.1E 00	4.1E 00	4.1E 00	4.1E 00	4.1E 00	4.1E 00
	(3.1E-01)	(3.9E-01)	(3.9E-01)	(3.1E-01)	(3.1E-01)	(3.1E-01)	(2.6E-01)	(2.6E-01)	(2.6E-01)	(3.1E-01)	(3.1E-01)	(3.1E-01)	(3.9E-01)

VALUES IN PARENTHESIS ARE PERCENTAGES OF TOTAL EMISSIONS OF THE DESIGNATED AREA FOR THE INDICATED TIME PERIOD.

TOTAL EMISSIONS(TONS) IN MISSOULA --MISSOULA CATEGORY:FUGITIVE DUST - PAVED ROADWAYS --RESIDENTIAL LIGHT DUTY VEHICLES

	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TSP	3.5E 03	2.8E 02	2.8E 02	3.9E 02	3.9E 02	3.9E 02	2.3E 02	2.3E 02	2.3E 02	2.7E 02	2.7E 02	2.7E 02	2.8E 02
	(1.1E 01)	(1.5E 01)	(1.5E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)	(9.3E 00)	(8.3E 00)	(8.3E 00)	(1.0E 01)	(1.0E 01)	(1.0E 01)	(1.5E 01)
RSP	1.4E 03	1.1E 02	1.1E 02	1.6E 02	1.6E 02	1.6E 02	9.4E 01	9.4E 01	9.4E 01	1.1E 02	1.1E 02	1.1E 02	1.1E 02
	(1.2E 01)	(1.5E 01)	(1.5E 01)	(1.4E 01)	(1.4E 01)	(1.4E 01)	(9.5E 00)	(9.5E 00)	(9.5E 00)	(1.1E 01)	(1.1E 01)	(1.1E 01)	(1.5E 01)
PB	2.6E 00	2.0E-01	2.0E-01	2.8E-01	2.8E-01	2.8E-01	1.7E-01	1.7E-01	1.7E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01
	(1.7E 01)	(1.7E 01)	(1.7E 01)	(1.8E 01)	(1.8E 01)	(1.8E 01)	(1.7E 01)	(1.7E 01)	(1.7E 01)	(1.7E 01)	(1.7E 01)	(1.7E 01)	(1.7E 01)
AS	6.5E-03	5.1E-04	5.1E-04	7.1E-04	7.1E-04	7.1E-04	4.3E-04	4.3E-04	4.3E-04	5.0E-04	5.0E-04	5.0E-04	5.1E-04
	(9.1E 00)	(1.2E 01)	(1.2E 01)	(1.1E 01)	(1.1E 01)	(1.1E 01)	(6.7E 00)	(6.7E 00)	(6.7E 00)	(8.2E 00)	(8.2E 00)	(8.2E 00)	(1.2E 01)
CD	1.9E-02	1.6E-03	1.6E-03	2.1E-03	2.1E-03	2.1E-03	1.3E-03	1.3E-03	1.3E-03	1.5E-03	1.5E-03	1.5E-03	1.6E-03
	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.2E 01)	(1.2E 01)	(1.2E 01)	(1.2E 01)	(1.2E 01)	(1.2E 01)	(1.3E 01)
V	3.2E-01	2.6E-02	2.6E-02	3.6E-02	3.6E-02	3.6E-02	2.1E-02	2.1E-02	2.1E-02	2.5E-02	2.5E-02	2.5E-02	2.6E-02
	(1.2E 01)	(1.5E 01)	(1.5E 01)	(1.4E 01)	(1.4E 01)	(1.4E 01)	(8.2E 00)	(8.2E 00)	(8.2E 00)	(1.0E 01)	(1.0E 01)	(1.0E 01)	(1.5E 01)
CU	3.9E 00	3.1E-01	3.1E-01	4.3E-01	4.3E-01	4.3E-01	2.6E-01	2.6E-01	2.6E-01	3.0E-01	3.0E-01	3.0E-01	3.1E-01
	(3.5E 01)	(3.8E 01)	(3.8E 01)	(3.6E 01)	(3.6E 01)	(3.6E 01)	(3.1E 01)	(3.1E 01)	(3.1E 01)	(3.4E 01)	(3.4E 01)	(3.4E 01)	(3.8E 01)
FE	7.1E 01	5.7E 00	5.7E 00	7.8E 00	7.8E 00	7.8E 00	4.7E 00	4.7E 00	4.7E 00	5.5E 00	5.5E 00	5.5E 00	5.7E 00
	(1.2E 01)	(1.6E 01)	(1.6E 01)	(1.4E 01)	(1.4E 01)	(1.4E 01)	(8.9E 00)	(8.9E 00)	(8.9E 00)	(1.1E 01)	(1.1E 01)	(1.1E 01)	(1.6E 01)
AL	1.5E 02	1.2E 01	1.2E 01	1.6E 01	1.6E 01	1.6E 01	9.8E 00	9.8E 00	9.8E 00	1.1E 01	1.1E 01	1.1E 01	1.2E 01
	(1.0E 01)	(1.4E 01)	(1.4E 01)	(1.2E 01)	(1.2E 01)	(1.2E 01)	(7.1E 00)	(7.1E 00)	(7.1E 00)	(9.0E 00)	(9.0E 00)	(9.0E 00)	(1.4E 01)
ZN	1.3E 00	1.0E-01	1.0E-01	1.4E-01	1.4E-01	1.4E-01	8.5E-02	8.5E-02	8.5E-02	1.0E-01	1.0E-01	1.0E-01	1.0E-01
	(2.4E 01)	(2.5E 01)	(2.5E 01)	(2.5E 01)	(2.5E 01)	(2.5E 01)	(2.2E 01)	(2.2E 01)	(2.2E 01)	(2.3E 01)	(2.3E 01)	(2.3E 01)	(2.5E 01)
SO2	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
SO4=	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2S	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2SO4	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
HC	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
NOX	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CO	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)

VALUES IN PARENTHESIS ARE PERCENTAGES OF TOTAL EMISSIONS OF THE DESIGNATED AREA FOR THE INDICATED TIME PERIOD.

TABLE 18 (continued)

TOTAL EMISSIONS(TONS) IN MISSOULA --MISSOULA CATEGORY:FUGITIVE DUST - PAVED ROADWAYS --RESIDENTIAL MEDIUM DUTY VEHICLES

	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TSP	6.8E 02	5.4E 01	5.4E 01	7.5E 01	7.5E 01	7.5E 01	4.5E 01	4.5E 01	4.5E 01	5.3E 01	5.3E 01	5.3E 01	5.4E 01
	(2.2E 00)	(2.8E 00)	(2.8E 00)	(2.6E 00)	(2.6E 00)	(2.6E 00)	(1.6E 00)	(1.6E 00)	(1.6E 00)	(2.0E 00)	(2.0E 00)	(2.0E 00)	(2.8E 00)
RSP	2.7E 02	2.2E 01	2.2E 01	3.0E 01	3.0E 01	3.0E 01	1.8E 01	1.8E 01	1.8E 01	2.1E 01	2.1E 01	2.1E 01	2.2E 01
	(2.3E 00)	(2.8E 00)	(2.8E 00)	(2.7E 00)	(2.7E 00)	(2.7E 00)	(1.8E 00)	(1.8E 00)	(1.8E 00)	(2.1E 00)	(2.1E 00)	(2.1E 00)	(2.8E 00)
PB	3.2E-01	2.5E-02	2.5E-02	3.6E-02	3.6E-02	3.6E-02	2.1E-02	2.1E-02	2.1E-02	2.5E-02	2.5E-02	2.5E-02	2.5E-02
	(2.2E 00)	(2.2E 00)	(2.2E 00)	(2.2E 00)	(2.2E 00)	(2.2E 00)	(2.2E 00)	(2.2E 00)	(2.2E 00)	(2.2E 00)	(2.2E 00)	(2.2E 00)	(2.2E 00)
AS	1.5E-03	1.2E-04	1.2E-04	1.7E-04	1.7E-04	1.7E-04	1.0E-04	1.0E-04	1.0E-04	1.2E-04	1.2E-04	1.2E-04	1.2E-04
	(2.2E 00)	(2.7E 00)	(2.7E 00)	(2.5E 00)	(2.5E 00)	(2.5E 00)	(1.6E 00)	(1.6E 00)	(1.6E 00)	(2.0E 00)	(2.0E 00)	(2.0E 00)	(2.7E 00)
CD	3.4E-02	2.7E-03	2.7E-03	3.7E-03	3.7E-03	3.7E-03	2.3E-03	2.3E-03	2.3E-03	2.6E-03	2.6E-03	2.6E-03	2.7E-03
	(2.2E 01)	(2.3E 01)	(2.3E 01)	(2.3E 01)	(2.3E 01)	(2.3E 01)	(2.0E 01)	(2.0E 01)	(2.0E 01)	(2.1E 01)	(2.1E 01)	(2.1E 01)	(2.3E 01)
V	6.8E-02	5.4E-03	5.4E-03	7.5E-03	7.5E-03	7.5E-03	4.5E-03	4.5E-03	4.5E-03	5.3E-03	5.3E-03	5.3E-03	5.4E-03
	(2.4E 00)	(3.2E 00)	(3.2E 00)	(2.9E 00)	(2.9E 00)	(2.9E 00)	(1.7E 00)	(1.7E 00)	(1.7E 00)	(2.2E 00)	(2.2E 00)	(2.2E 00)	(3.2E 00)
CU	7.3E-01	5.8E-02	5.8E-02	8.1E-02	8.1E-02	8.1E-02	4.8E-02	4.8E-02	4.8E-02	5.6E-02	5.6E-02	5.6E-02	5.8E-02
	(6.5E 00)	(6.9E 00)	(6.9E 00)	(6.8E 00)	(6.8E 00)	(6.8E 00)	(5.9E 00)	(5.9E 00)	(5.9E 00)	(6.3E 00)	(6.3E 00)	(6.3E 00)	(6.9E 00)
FE	1.3E 01	1.0E 00	1.0E 00	1.5E 00	1.5E 00	1.5E 00	9.0E-01	9.0E-01	9.0E-01	1.0E 00	1.0E 00	1.0E 00	1.0E 00
	(2.3E 00)	(2.9E 00)	(2.9E 00)	(2.7E 00)	(2.7E 00)	(2.7E 00)	(1.7E 00)	(1.7E 00)	(1.7E 00)	(2.1E 00)	(2.1E 00)	(2.0E 00)	(2.9E 00)
AL	2.9E 01	2.3E 00	2.3E 00	3.2E 00	3.2E 00	3.2E 00	1.9E 00	1.9E 00	1.9E 00	2.2E 00	2.2E 00	2.2E 00	2.3E 00
	(2.0E 00)	(2.7E 00)	(2.7E 00)	(2.4E 00)	(2.4E 00)	(2.4E 00)	(1.4E 00)	(1.4E 00)	(1.4E 00)	(1.8E 00)	(1.8E 00)	(1.8E 00)	(2.7E 00)
ZN	2.2E-01	1.7E-02	1.7E-02	2.4E-02	2.4E-02	2.4E-02	1.5E-02	1.5E-02	1.5E-02	1.7E-02	1.7E-02	1.7E-02	1.7E-02
	(4.1E 00)	(4.3E 00)	(4.3E 00)	(4.3E 00)	(4.3E 00)	(4.3E 00)	(3.8E 00)	(3.8E 00)	(3.8E 00)	(4.0E 00)	(3.9E 00)	(3.9E 00)	(4.3E 00)
SO2	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
SO4=	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2S	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2SO4	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
HC	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
NOX	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CO	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)

VALUES IN PARENTHESIS ARE PERCENTAGES OF TOTAL EMISSIONS OF THE DESIGNATED AREA FOR THE INDICATED TIME PERIOD.

TABLE 18 (continued)

TOTAL EMISSIONS(TONS) IN MISSOULA --MISSOULA CATEGORY:FUGITIVE DUST - PAVED ROADWAYS --ARTERIAL LIGHT DUTY VEHICLES

	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TSP	3.8E 03	3.0E 02	3.0E 02	4.2E 02	4.2E 02	4.2E 02	2.5E 02	2.5E 02	2.5E 02	2.9E 02	2.9E 02	2.9E 02	3.0E 02
	(1.2E 01)	(1.6E 01)	(1.6E 01)	(1.4E 01)	(1.4E 01)	(1.4E 01)	(8.9E 00)	(8.9E 00)	(8.9E 00)	(1.1E 01)	(1.1E 01)	(1.1E 01)	(1.6E 01)
RSP	1.5E 03	1.2E 02	1.2E 02	1.7E 02	1.7E 02	1.7E 02	1.0E 02	1.0E 02	1.0E 02	1.2E 02	1.2E 02	1.2E 02	1.2E 02
	(1.3E 01)	(1.6E 01)	(1.6E 01)	(1.5E 01)	(1.5E 01)	(1.5E 01)	(1.0E 01)	(1.0E 01)	(1.0E 01)	(1.2E 01)	(1.2E 01)	(1.2E 01)	(1.6E 01)
PB	3.8E 00	3.0E-01	3.0E-01	4.2E-01	4.2E-01	4.2E-01	2.5E-01	2.5E-01	2.5E-01	2.9E-01	2.9E-01	2.9E-01	3.0E-01
	(2.6E 01)	(2.6E 01)	(2.6E 01)	(2.6E 01)	(2.6E 01)	(2.6E 01)	(2.5E 01)	(2.5E 01)	(2.5E 01)	(2.6E 01)	(2.6E 01)	(2.6E 01)	(2.6E 01)
AS	1.1E-02	8.6E-04	8.6E-04	1.2E-03	1.2E-03	1.2E-03	7.2E-04	7.2E-04	7.2E-04	8.3E-04	8.3E-04	8.3E-04	8.6E-04
	(1.5E 01)	(1.9E 01)	(1.9E 01)	(1.8E 01)	(1.8E 01)	(1.8E 01)	(1.1E 01)	(1.1E 01)	(1.1E 01)	(1.4E 01)	(1.4E 01)	(1.4E 01)	(1.9E 01)
CD	2.7E-02	2.1E-03	2.1E-03	3.0E-03	3.0E-03	3.0E-03	1.8E-03	1.8E-03	1.8E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03
	(1.7E 01)	(1.8E 01)	(1.8E 01)	(1.8E 01)	(1.8E 01)	(1.8E 01)	(1.6E 01)	(1.6E 01)	(1.6E 01)	(1.7E 01)	(1.7E 01)	(1.7E 01)	(1.8E 01)
V	3.2E-01	2.6E-02	2.6E-02	3.6E-02	3.6E-02	3.6E-02	2.1E-02	2.1E-02	2.1E-02	2.5E-02	2.5E-02	2.5E-02	2.6E-02
	(1.2E 01)	(1.6E 01)	(1.6E 01)	(1.4E 01)	(1.4E 01)	(1.4E 01)	(8.3E 00)	(8.3E 00)	(8.3E 00)	(1.0E 01)	(1.0E 01)	(1.0E 01)	(1.6E 01)
CU	1.1E 00	8.6E-02	8.6E-02	1.2E-01	1.2E-01	1.2E-01	7.1E-02	7.1E-02	7.1E-02	8.3E-02	8.3E-02	8.3E-02	8.6E-02
	(9.7E 00)	(1.0E 01)	(1.0E 01)	(1.0E 01)	(1.0E 01)	(1.0E 01)	(8.8E 00)	(8.8E 00)	(8.8E 00)	(9.3E 00)	(9.3E 00)	(9.3E 00)	(1.0E 01)
FE	7.6E 01	6.2E 00	6.2E 00	8.3E 00	8.3E 00	8.3E 00	5.0E 00	5.0E 00	5.0E 00	5.8E 00	5.8E 00	5.8E 00	6.2E 00
	(1.3E 01)	(1.7E 01)	(1.7E 01)	(1.5E 01)	(1.5E 01)	(1.5E 01)	(9.5E 00)	(9.5E 00)	(9.5E 00)	(1.2E 01)	(1.2E 01)	(1.2E 01)	(1.7E 01)
AL	1.7E 02	1.3E 01	1.3E 01	1.8E 01	1.8E 01	1.8E 01	1.1E 01	1.1E 01	1.1E 01	1.3E 01	1.3E 01	1.3E 01	1.3E 01
	(1.2E 01)	(1.6E 01)	(1.6E 01)	(1.4E 01)	(1.4E 01)	(1.4E 01)	(7.8E 00)	(7.8E 00)	(7.8E 00)	(1.0E 01)	(1.0E 01)	(1.0E 01)	(1.6E 01)
ZN	1.1E 00	8.6E-02	8.6E-02	1.2E-01	1.2E-01	1.2E-01	7.1E-02	7.1E-02	7.1E-02	8.3E-02	8.3E-02	8.3E-02	8.6E-02
	(2.0E 01)	(2.1E 01)	(2.1E 01)	(2.1E 01)	(2.1E 01)	(2.1E 01)	(1.9E 01)	(1.9E 01)	(1.9E 01)	(2.0E 01)	(1.9E 01)	(1.9E 01)	(2.1E 01)
SO2	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
SO4=	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2S	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2SO4	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
HC	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
NOX	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CO	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)

VALUES IN PARENTHESIS ARE PERCENTAGES OF TOTAL EMISSIONS OF THE DESIGNATED AREA FOR THE INDICATED TIME PERIOD.

TABLE 18 (continued)

TOTAL EMISSIONS(TONS) IN MISSOULA --MISSOULA CATEGORY:FUGITIVE DUST - PAVED ROADWAYS --ARTERIAL MEDIUM DUTY VEHICLES

	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TSP	5.8E 03	4.5E 02	4.5E 02	6.4E 02	6.4E 02	6.4E 02	4.0E 02	4.0E 02	4.0E 02	4.3E 02	4.3E 02	4.3E 02	4.5E 02
	(1.9E 01)	(2.3E 01)	(2.3E 01)	(2.2E 01)	(2.2E 01)	(2.2E 01)	(1.4E 01)	(1.4E 01)	(1.4E 01)	(1.6E 01)	(1.6E 01)	(1.6E 01)	(2.3E 01)
RSP	2.3E 03	1.8E 02	1.8E 02	2.6E 02	2.6E 02	2.6E 02	1.5E 02	1.5E 02	1.5E 02	1.8E 02	1.8E 02	1.8E 02	1.8E 02
	(2.0E 01)	(2.4E 01)	(2.4E 01)	(2.3E 01)	(2.3E 01)	(2.3E 01)	(1.5E 01)	(1.5E 01)	(1.5E 01)	(1.8E 01)	(1.8E 01)	(1.8E 01)	(2.4E 01)
PB	5.6E 00	4.5E-01	4.5E-01	6.1E-01	6.1E-01	6.1E-01	3.7E-01	3.7E-01	3.7E-01	4.3E-01	4.3E-01	4.3E-01	4.5E-01
	(3.8E 01)	(3.9E 01)	(3.9E 01)	(3.8E 01)	(3.8E 01)	(3.8E 01)	(3.7E 01)	(3.7E 01)	(3.7E 01)	(3.8E 01)	(3.8E 01)	(3.8E 01)	(3.9E 01)
AS	1.6E-02	1.3E-03	1.3E-03	1.8E-03	1.8E-03	1.8E-03	1.1E-03	1.1E-03	1.1E-03	1.3E-03	1.3E-03	1.3E-03	1.3E-03
	(2.3E 01)	(2.9E 01)	(2.9E 01)	(2.6E 01)	(2.6E 01)	(2.6E 01)	(1.7E 01)	(1.7E 01)	(1.7E 01)	(2.1E 01)	(2.1E 01)	(2.1E 01)	(2.9E 01)
CD	4.6E-02	3.7E-03	3.7E-03	5.1E-03	5.1E-03	5.1E-03	3.1E-03	3.1E-03	3.1E-03	3.6E-03	3.6E-03	3.6E-03	3.7E-03
	(3.0E 01)	(3.1E 01)	(3.1E 01)	(3.1E 01)	(3.1E 01)	(3.1E 01)	(2.8E 01)	(2.8E 01)	(2.8E 01)	(2.9E 01)	(2.9E 01)	(2.9E 01)	(3.1E 01)
V	4.6E-01	3.7E-02	3.7E-02	5.1E-02	5.1E-02	5.1E-02	3.1E-02	3.1E-02	3.1E-02	3.6E-02	3.6E-02	3.6E-02	3.7E-02
	(1.7E 01)	(2.2E 01)	(2.2E 01)	(2.0E 01)	(2.0E 01)	(2.0E 01)	(1.2E 01)	(1.2E 01)	(1.2E 01)	(1.5E 01)	(1.5E 01)	(1.5E 01)	(2.2E 01)
CU	1.9E 00	1.5E-01	1.5E-01	2.0E-01	2.0E-01	2.0E-01	1.2E-01	1.2E-01	1.2E-01	1.4E-01	1.4E-01	1.4E-01	1.5E-01
	(1.7E 01)	(1.8E 01)	(1.8E 01)	(1.7E 01)	(1.7E 01)	(1.7E 01)	(1.5E 01)	(1.5E 01)	(1.5E 01)	(1.6E 01)	(1.6E 01)	(1.6E 01)	(1.8E 01)
FE	1.2E 02	9.4E 00	9.4E 00	1.3E 01	1.3E 01	1.3E 01	8.0E 00	8.0E 00	8.0E 00	9.2E 00	9.2E 00	9.2E 00	9.4E 00
	(2.0E 01)	(2.6E 01)	(2.6E 01)	(2.4E 01)	(2.4E 01)	(2.4E 01)	(1.5E 01)	(1.5E 01)	(1.5E 01)	(1.8E 01)	(1.8E 01)	(1.8E 01)	(2.6E 01)
AL	2.5E 02	2.0E 01	2.0E 01	2.8E 01	2.8E 01	2.8E 01	1.7E 01	1.7E 01	1.7E 01	2.0E 01	2.0E 01	2.0E 01	2.0E 01
	(1.8E 01)	(2.4E 01)	(2.4E 01)	(2.1E 01)	(2.1E 01)	(2.1E 01)	(1.2E 01)	(1.2E 01)	(1.2E 01)	(1.6E 01)	(1.6E 01)	(1.6E 01)	(2.4E 01)
ZN	1.4E 00	1.1E-01	1.1E-01	1.5E-01	1.5E-01	1.5E-01	9.2E-02	9.2E-02	9.2E-02	1.1E-01	1.1E-01	1.1E-01	1.1E-01
	(2.6E 01)	(2.7E 01)	(2.7E 01)	(2.7E 01)	(2.7E 01)	(2.7E 01)	(2.4E 01)	(2.4E 01)	(2.4E 01)	(2.5E 01)	(2.5E 01)	(2.5E 01)	(2.7E 01)
SO2	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
SO4=	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2S	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2SO4	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
HC	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
NOX	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CO	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)

VALUES IN PARENTHESIS ARE PERCENTAGES OF TOTAL EMISSIONS OF THE DESIGNATED AREA FOR THE INDICATED TIME PERIOD.

TABLE 18 (continued)

TOTAL EMISSIONS(TONS) IN MISSOULA --MISSOULA CATEGORY:FUGITIVE DUST - PAVED ROADWAYS --INDUSTRIAL-PLANT MIX VEHICLES

	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TSP	2.6E 03	2.1E 02	2.1E 02	2.9E 02	2.9E 02	2.9E 02	1.7E 02	1.7E 02	1.7E 02	2.0E 02	2.0E 02	2.0E 02	2.1E 02
	(8.4E 00)	(1.1E 01)	(1.1E 01)	(9.8E 00)	(9.9E 00)	(9.9E 00)	(6.1E 00)	(6.1E 00)	(6.1E 00)	(7.6E 00)	(7.6E 00)	(7.6E 00)	(1.1E 01)
RSP	1.1E 03	8.3E 01	8.3E 01	1.2E 02	1.2E 02	1.2E 02	6.9E 01	6.9E 01	6.9E 01	8.2E 01	8.2E 01	8.2E 01	8.3E 01
	(9.1E 00)	(1.1E 01)	(1.1E 01)	(1.0E 01)	(1.0E 01)	(1.0E 01)	(7.0E 00)	(7.0E 00)	(7.0E 00)	(8.4E 00)	(8.3E 00)	(8.3E 00)	(1.1E 01)
PB	1.9E 00	1.5E-01	1.5E-01	2.1E-01	2.1E-01	2.1E-01	1.3E-01	1.3E-01	1.3E-01	1.5E-01	1.5E-01	1.5E-01	1.5E-01
	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)
AS	5.5E-03	4.4E-04	4.4E-04	6.1E-04	6.1E-04	6.1E-04	3.6E-04	3.6E-04	3.6E-04	4.3E-04	4.3E-04	4.3E-04	4.4E-04
	(7.8E 00)	(9.9E 00)	(9.9E 00)	(9.0E 00)	(9.0E 00)	(9.0E 00)	(5.8E 00)	(5.8E 00)	(5.8E 00)	(7.0E 00)	(7.0E 00)	(7.0E 00)	(9.9E 00)
CD	1.4E-02	1.1E-03	1.1E-03	1.5E-03	1.5E-03	1.5E-03	9.1E-04	9.1E-04	9.1E-04	1.1E-03	1.1E-03	1.1E-03	1.1E-03
	(8.9E 00)	(9.3E 00)	(9.3E 00)	(9.2E 00)	(9.2E 00)	(9.2E 00)	(8.3E 00)	(8.3E 00)	(8.3E 00)	(8.7E 00)	(8.7E 00)	(8.7E 00)	(9.3E 00)
V	2.5E-01	2.0E-02	2.0E-02	2.7E-02	2.7E-02	2.7E-02	1.6E-02	1.6E-02	1.6E-02	1.9E-02	1.9E-02	1.9E-02	2.0E-02
	(8.9E 00)	(1.2E 01)	(1.2E 01)	(1.1E 01)	(1.1E 01)	(1.1E 01)	(6.3E 00)	(6.3E 00)	(6.3E 00)	(7.9E 00)	(7.9E 00)	(7.9E 00)	(1.2E 01)
CU	2.2E 00	1.7E-01	1.7E-01	2.4E-01	2.4E-01	2.4E-01	1.5E-01	1.5E-01	1.5E-01	1.7E-01	1.7E-01	1.7E-01	1.7E-01
	(2.0E 01)	(2.1E 01)	(2.1E 01)	(2.1E 01)	(2.1E 01)	(2.1E 01)	(1.8E 01)	(1.8E 01)	(1.8E 01)	(1.9E 01)	(1.9E 01)	(1.9E 01)	(2.1E 01)
FE	5.0E 01	3.9E 00	3.9E 00	5.5E 00	5.5E 00	5.5E 00	3.3E 00	3.3E 00	3.3E 00	4.0E 00	4.0E 00	4.0E 00	3.9E 00
	(8.5E 00)	(1.1E 01)	(1.1E 01)	(9.9E 00)	(9.9E 00)	(9.9E 00)	(6.2E 00)	(6.2E 00)	(6.2E 00)	(7.9E 00)	(7.9E 00)	(7.9E 00)	(1.1E 01)
AL	1.1E 02	8.3E 00	8.3E 00	1.2E 01	1.2E 01	1.2E 01	6.9E 00	6.9E 00	6.9E 00	8.2E 00	8.2E 00	8.2E 00	8.3E 00
	(7.3E 00)	(9.7E 00)	(9.7E 00)	(8.7E 00)	(8.7E 00)	(8.7E 00)	(5.0E 00)	(5.0E 00)	(5.0E 00)	(6.5E 00)	(6.5E 00)	(6.5E 00)	(9.7E 00)
ZN	7.8E-01	6.1E-02	6.1E-02	8.5E-02	8.5E-02	8.5E-02	5.1E-02	5.1E-02	5.1E-02	6.1E-02	6.1E-02	6.1E-02	6.1E-02
	(1.4E 01)	(1.5E 01)	(1.5E 01)	(1.5E 01)	(1.5E 01)	(1.5E 01)	(1.3E 01)	(1.3E 01)	(1.3E 01)	(1.4E 01)	(1.4E 01)	(1.4E 01)	(1.5E 01)
SO2	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
SO4=	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2S	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2SO4	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
HC	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
NOX	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CO	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)

VALUES IN PARENTHESIS ARE PERCENTAGES OF TOTAL EMISSIONS OF THE DESIGNATED AREA FOR THE INDICATED TIME PERIOD.

TABLE 18 (continued)

TOTAL EMISSIONS(TONS) IN MISSOULA --MISSOULA CATEGORY:FUGITIVE DUST-UNPAVED ROADWAYS --RESIDENTIAL VEHICLES

	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TSP	1.2E 04	4.8E 02	4.8E 02	9.3E 02	9.3E 02	9.3E 02	1.5E 03	1.5E 03	1.5E 03	1.2E 03	1.2E 03	1.2E 03	4.8E 02
	(4.0E 01)	(2.5E 01)	(2.5E 01)	(3.2E 01)	(3.2E 01)	(3.2E 01)	(5.4E 01)	(5.4E 01)	(5.4E 01)	(4.6E 01)	(4.6E 01)	(4.5E 01)	(2.5E 01)
RSP	3.8E 03	1.5E 02	1.5E 02	2.8E 02	2.8E 02	2.8E 02	4.5E 02	4.5E 02	4.5E 02	3.7E 02	3.7E 02	3.7E 02	1.5E 02
	(1.3E 01)	(1.9E 01)	(1.9E 01)	(2.6E 01)	(2.6E 01)	(2.6E 01)	(4.6E 01)	(4.6E 01)	(4.6E 01)	(3.7E 01)	(3.7E 01)	(3.7E 01)	(1.9E 01)
PB	3.2E-01	1.3E-02	1.3E-02	2.5E-02	2.5E-02	2.5E-02	3.9E-02	3.9E-02	3.9E-02	3.2E-02	3.2E-02	3.2E-02	1.3E-02
	(2.2E 00)	(1.1E 00)	(1.1E 00)	(1.5E 00)	(1.5E 00)	(1.5E 00)	(4.0E 00)	(4.0E 00)	(4.0E 00)	(2.8E 00)	(2.8E 00)	(2.8E 00)	(1.1E 00)
AS	3.0E-02	1.2E-03	1.2E-03	2.3E-03	2.3E-03	2.3E-03	3.6E-03	3.6E-03	3.6E-03	2.9E-03	2.9E-03	2.9E-03	1.2E-03
	(4.2E 01)	(2.7E 01)	(2.7E 01)	(3.4E 01)	(3.4E 01)	(3.4E 01)	(5.7E 01)	(5.7E 01)	(5.7E 01)	(4.8E 01)	(4.8E 01)	(4.8E 01)	(2.7E 01)
CD	1.2E-02	4.8E-04	4.8E-04	9.3E-04	9.3E-04	9.3E-04	1.5E-03	1.5E-03	1.5E-03	1.2E-03	1.2E-03	1.2E-03	4.8E-04
	(8.0E 00)	(4.1E 00)	(4.1E 00)	(5.6E 00)	(5.6E 00)	(5.6E 00)	(1.4E 01)	(1.4E 01)	(1.4E 01)	(9.9E 00)	(9.9E 00)	(9.9E 00)	(4.1E 00)
V	1.2E 00	4.8E-02	4.8E-02	9.3E-02	9.3E-02	9.3E-02	1.5E-01	1.5E-01	1.5E-01	1.2E-01	1.2E-01	1.2E-01	4.8E-02
	(4.5E 01)	(2.9E 01)	(2.9E 01)	(3.6E 01)	(3.6E 01)	(3.6E 01)	(5.8E 01)	(5.8E 01)	(5.8E 01)	(5.0E 01)	(5.0E 01)	(5.0E 01)	(2.9E 01)
CU	1.2E 00	4.8E-02	4.8E-02	9.3E-02	9.3E-02	9.3E-02	1.5E-01	1.5E-01	1.5E-01	1.2E-01	1.2E-01	1.2E-01	4.8E-02
	(1.1E 01)	(5.8E 00)	(5.8E 00)	(7.9E 00)	(7.9E 00)	(7.9E 00)	(1.8E 01)	(1.8E 01)	(1.8E 01)	(1.4E 01)	(1.4E 01)	(1.4E 01)	(5.8E 00)
FF	2.3E 02	9.3E 00	9.3E 00	1.8E 01	1.8E 01	1.8E 01	2.8E 01	2.8E 01	2.8E 01	2.3E 01	2.3E 01	2.3E 01	9.3E 00
	(4.0E 01)	(2.6E 01)	(2.6E 01)	(3.2E 01)	(3.2E 01)	(3.2E 01)	(5.4E 01)	(5.4E 01)	(5.4E 01)	(4.5E 01)	(4.5E 01)	(4.5E 01)	(2.6E 01)
AL	6.8E 02	2.7E 01	2.7E 01	5.1E 01	5.1E 01	5.1E 01	8.4E 01	8.4E 01	8.4E 01	6.5E 01	6.5E 01	6.5E 01	2.7E 01
	(4.7E 01)	(3.1E 01)	(3.1E 01)	(3.8E 01)	(3.8E 01)	(3.8E 01)	(6.1E 01)	(6.1E 01)	(6.1E 01)	(5.2E 01)	(5.2E 01)	(5.2E 01)	(3.1E 01)
ZN	5.1E-01	2.0E-02	2.0E-02	3.9E-02	3.9E-02	3.9E-02	6.1E-02	6.1E-02	6.1E-02	5.1E-02	5.1E-02	5.1E-02	2.0E-02
	(9.6E 00)	(5.0E 00)	(5.0E 00)	(6.8E 00)	(6.8E 00)	(6.8E 00)	(1.6E 01)	(1.6E 01)	(1.6E 01)	(1.2E 01)	(1.2E 01)	(1.2E 01)	(5.0E 00)
SO2	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
SO4=	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2S	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2SO4	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
HC	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
NOX	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CO	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)

VALUES IN PARENTHESIS ARE PERCENTAGES OF TOTAL EMISSIONS OF THE DESIGNATED AREA FOR THE INDICATED TIME PERIOD.

TABLE 18 (continued)

TOTAL EMISSIONS(TONS) IN MISSOULA --MISSOULA CATEGORY:FUGITIVE DUST-UNPAVED ROADWAYS --INDUSTRIAL

	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TSP	1.2E 03	4.6E 01	4.6E 01	8.8E 01	8.8E 01	8.8E 01	1.4E 02	1.4E 02	1.4E 02	1.1E 02	1.1E 02	1.1E 02	4.6E 01
	(3.8E 00)	(2.4E 00)	(2.4E 00)	(3.0E 00)	(3.0E 00)	(3.0E 00)	(5.0E 00)	(5.0E 00)	(5.0E 00)	(4.3E 00)	(4.2E 00)	(4.2E 00)	(2.4E 00)
RSP	3.5E 02	1.4E 01	1.4E 01	2.7E 01	2.7E 01	2.7E 01	4.2E 01	4.2E 01	4.2E 01	3.5E 01	3.5E 01	3.5E 01	1.4E 01
	(3.1E 00)	(1.8E 00)	(1.8E 00)	(2.4E 00)	(2.4E 00)	(2.4E 00)	(4.2E 00)	(4.2E 00)	(4.2E 00)	(3.6E 00)	(3.5E 00)	(3.5E 00)	(1.8E 00)
PB	3.5E-02	1.4E-03	1.4E-03	2.7E-03	2.7E-03	2.7E-03	4.2E-03	4.2E-03	4.2E-03	3.5E-03	3.5E-03	3.5E-03	1.4E-03
	(2.4E-01)	(1.2E-01)	(1.2E-01)	(1.7E-01)	(1.7E-01)	(1.7E-01)	(4.3E-01)	(4.3E-01)	(4.3E-01)	(3.1E-01)	(3.1E-01)	(3.1E-01)	(1.2E-01)
AS	2.7E-04	1.1E-05	1.1E-05	2.1E-05	2.1E-05	2.1E-05	3.2E-05	3.2E-05	3.2E-05	2.7E-05	2.7E-05	2.7E-05	1.1E-05
	(3.8E-01)	(2.4E-01)	(2.4E-01)	(3.0E-01)	(3.0E-01)	(3.0E-01)	(5.1E-01)	(5.1E-01)	(5.1E-01)	(4.4E-01)	(4.4E-01)	(4.4E-01)	(2.4E-01)
CD	1.2E-03	4.6E-05	4.6E-05	8.8E-05	8.8E-05	8.8E-05	1.4E-04	1.4E-04	1.4E-04	1.1E-04	1.1E-04	1.1E-04	4.6E-05
	(7.5E-01)	(3.9E-01)	(3.9E-01)	(5.3E-01)	(5.3E-01)	(5.3E-01)	(1.3E 00)	(1.3E 00)	(1.3E 00)	(9.2E-01)	(9.2E-01)	(9.2E-01)	(3.9E-01)
V	1.1E-01	4.4E-03	4.4E-03	8.6E-03	8.6E-03	8.6E-03	1.4E-02	1.4E-02	1.4E-02	1.1E-02	1.1E-02	1.1E-02	4.4E-03
	(4.1E 00)	(2.7E 00)	(2.7E 00)	(3.3E 00)	(3.3E 00)	(3.3E 00)	(5.3E 00)	(5.3E 00)	(5.3E 00)	(4.6E 00)	(4.6E 00)	(4.6E 00)	(2.7E 00)
CU	1.7E-01	6.7E-03	6.7E-03	1.3E-02	1.3E-02	1.3E-02	2.1E-02	2.1E-02	2.1E-02	1.7E-02	1.7E-02	1.7E-02	6.7E-03
	(1.5E 00)	(8.1E-01)	(8.1E-01)	(1.1E 00)	(1.1E 00)	(1.1E 00)	(2.5E 00)	(2.5E 00)	(2.5E 00)	(1.9E 00)	(1.9E 00)	(1.9E 00)	(8.1E-01)
FE	1.9E 01	7.6E-01	7.6E-01	1.5E 00	1.5E 00	1.5E 00	2.3E 00	2.3E 00	2.3E 00	1.9E 00	1.9E 00	1.9E 00	7.6E-01
	(3.3E 00)	(2.1E 00)	(2.1E 00)	(2.6E 00)	(2.6E 00)	(2.6E 00)	(4.4E 00)	(4.4E 00)	(4.4E 00)	(3.8E 00)	(3.8E 00)	(3.8E 00)	(2.1E 00)
AL	6.3E 01	2.5E 00	2.5E 00	4.7E 00	4.7E 00	4.7E 00	7.6E 00	7.6E 00	7.6E 00	6.2E 00	6.2E 00	6.2E 00	2.5E 00
	(4.3E 00)	(2.9E 00)	(2.9E 00)	(3.5E 00)	(3.5E 00)	(3.5E 00)	(5.6E 00)	(5.6E 00)	(5.6E 00)	(4.9E 00)	(4.9E 00)	(4.9E 00)	(2.9E 00)
ZN	5.9E-02	2.3E-03	2.3E-03	4.5E-03	4.5E-03	4.5E-03	7.2E-03	7.2E-03	7.2E-03	5.8E-03	5.8E-03	5.8E-03	2.3E-03
	(1.1E 00)	(5.7E-01)	(5.7E-01)	(7.9E-01)	(7.9E-01)	(7.9E-01)	(1.9E 00)	(1.9E 00)	(1.9E 00)	(1.4E 00)	(1.3E 00)	(1.3E 00)	(5.7E-01)
SO2	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
SO4=	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2S	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2SO4	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
HC	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
NOX	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CO	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)

VALUES IN PARENTHESIS ARE PERCENTAGES OF TOTAL EMISSIONS OF THE DESIGNATED AREA FOR THE INDICATED TIME PERIOD.

TABLE 18 (continued)

TOTAL EMISSIONS(TONS) IN MISSOULA LOCATION:MISSOULA FOR POINT SOURCES

	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TSP	7.2E 02	7.2E 01	7.2E 01	6.0E 01	6.0E 01	6.0E 01	4.8E 01	4.8E 01	4.8E 01	6.0E 01	6.0E 01	6.0E 01	7.2E 01
	(2.3E 00)	(3.7E 00)	(3.7E 00)	(2.0E 00)	(2.1E 00)	(2.1E 00)	(1.7E 00)	(1.7E 00)	(1.7E 00)	(2.3E 00)	(2.2E 00)	(2.2E 00)	(3.7E 00)
RSP	6.4E 02	6.4E 01	6.4E 01	5.3E 01	5.3E 01	5.3E 01	4.2E 01	4.2E 01	4.2E 01	5.3E 01	5.3E 01	5.3E 01	6.4E 01
	(5.5E 00)	(8.3E 00)	(8.3E 00)	(4.8E 00)	(4.8E 00)	(4.8E 00)	(4.2E 00)	(4.2E 00)	(4.2E 00)	(5.4E 00)	(5.4E 00)	(5.3E 00)	(8.3E 00)
PB	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
AS	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CD	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
V	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
CU	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
FE	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
AL	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
ZN	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
SO2	2.3E 01	1.9E 00	1.9E 00	1.9E 00	1.9E 00	1.9E 00	1.9E 00	1.9E 00	1.9E 00	1.9E 00	1.9E 00	1.9E 00	1.9E 00
	(7.2E 00)	(5.8E 00)	(6.8E 00)	(6.1E 00)	(7.5E 00)	(8.3E 00)	(8.3E 00)	(9.2E 00)	(8.5E 00)	(8.8E 00)	(7.2E 00)	(6.1E 00)	(6.2E 00)
SO4=	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2S	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
H2SO4	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01	0.0E-01
	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)	(0.0E-01)
HC	7.6E 01	6.3E 00	6.3E 00	6.3E 00	6.3E 00	6.3E 00	6.3E 00	6.3E 00	6.3E 00	6.3E 00	6.3E 00	6.3E 00	6.3E 00
	(3.9E 00)	(4.8E 00)	(4.8E 00)	(3.9E 00)	(3.9E 00)	(3.9E 00)	(3.3E 00)	(3.3E 00)	(3.3E 00)	(3.9E 00)	(3.9E 00)	(3.9E 00)	(4.8E 00)
NOX	1.6E 02	1.3E 01	1.3E 01	1.3E 01	1.3E 01	1.3E 01	1.3E 01	1.3E 01	1.3E 01	1.3E 01	1.3E 01	1.3E 01	1.3E 01
	(7.0E 00)	(8.0E 00)	(8.2E 00)	(6.8E 00)	(7.0E 00)	(7.1E 00)	(6.1E 00)	(6.2E 00)	(6.1E 00)	(7.1E 00)	(7.0E 00)	(6.8E 00)	(8.1E 00)
CO	1.6E 02	1.3E 01	1.3E 01	1.3E 01	1.3E 01	1.3E 01	1.3E 01	1.3E 01	1.3E 01	1.3E 01	1.3E 01	1.3E 01	1.3E 01
	(9.9E-01)	(1.2E 00)	(1.2E 00)	(9.9E-01)	(9.9E-01)	(9.9E-01)	(8.3E-01)	(8.3E-01)	(8.3E-01)	(9.9E-01)	(9.9E-01)	(9.9E-01)	(1.2E 00)

VALUES IN PARENTHESIS ARE PERCENTAGES OF TOTAL EMISSIONS OF THE DESIGNATED AREA FOR THE INDICATED TIME PERIOD.

The values found in parentheses beneath the emission values indicate the relative percentages that particular sources contribute to the total emissions of a specific pollutant.

7.2.3 Total Monthly Emissions in Specific UTM Grids

Tables 19 to 26 present total pollutant emissions for a number of urban 1 km square grids. Information provided is identical to that found in Section 7.2.1. The specific areas where each grid is located are presented in the introduction of Section 7.2.

TABLE 19

TOTAL EMISSIONS IN GRID 383/5095
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: SILVERBOW LOCATION: BUTTE

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)					
		JAN	FEB	MAR	APR	MAY	JUN
TSP	2.4E 02	2.1E 01	2.1E 01	3.4E 01	3.4E 01	3.4E 01	1.1E 01
	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 2, 97)
RSP	9.5E 01	8.2E 00	8.2E 00	1.4E 01	1.3E 01	1.3E 01	4.3E 00
	(0, 2, 97)	(0, 2, 97)	(0, 2, 97)	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)	(0, 4, 95)
PB	1.6E-01	1.4E-02	1.4E-02	2.3E-02	2.3E-02	2.3E-02	7.2E-03
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
AS	7.4E-03	6.4E-04	6.4E-04	1.1E-03	1.1E-03	1.1E-03	3.1E-04
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CD	1.5E-03	1.3E-04	1.3E-04	2.2E-04	2.2E-04	2.2E-04	6.5E-05
	(0, 0, 99)	(0, 1, 99)	(0, 1, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 1, 98)
V	4.5E-02	3.9E-03	3.9E-03	6.5E-03	6.5E-03	6.5E-03	2.0E-03
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CU	2.3E-01	2.0E-02	2.0E-02	3.4E-02	3.4E-02	3.4E-02	1.0E-02
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
FE	4.4E 00	3.8E-01	3.8E-01	6.4E-01	6.4E-01	6.4E-01	2.0E-01
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
AL	2.0E 01	1.7E 00	1.7E 00	2.8E 00	2.8E 00	2.8E 00	9.6E-01
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
ZN	3.0E-01	2.6E-02	2.6E-02	4.3E-02	4.3E-02	4.3E-02	1.4E-02
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
SO2	2.9E 00	2.3E-01	2.2E-01	2.5E-01	2.4E-01	2.3E-01	2.5E-01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
H2SO4	5.8E-01	3.9E-02	3.9E-02	4.9E-02	4.9E-02	4.9E-02	5.8E-02
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	1.4E 01	1.0E 00	9.9E-01	1.2E 00	1.2E 00	1.2E 00	1.4E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
NOX	2.5E 01	1.9E 00	1.9E 00	2.2E 00	2.1E 00	2.1E 00	2.3E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
CO	1.4E 02	9.3E 00	9.3E 00	1.2E 01	1.1E 01	1.1E 01	1.4E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)

TABLE 19 (continued)

TOTAL EMISSIONS IN GRID 383/5095
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: SILVERBOW LOCATION: BUTTE

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS) JUL	AUG	SEP	OCT	NOV	DEC
TSP	2.4E 02	1.1E 01	1.1E 01	1.4E 01	1.4E 01	1.4E 01	2.1E 01
	(0, 1, 98)	(0, 2, 97)	(0, 2, 97)	(0, 1, 98)	(0, 1, 98)	(0, 2, 97)	(0, 1, 98)
RSP	9.5E 01	4.3E 00	4.3E 00	5.7E 00	5.8E 00	5.8E 00	8.2E 00
	(0, 2, 97)	(0, 4, 95)	(0, 4, 95)	(0, 3, 96)	(0, 3, 96)	(0, 4, 95)	(0, 2, 97)
PB	1.6E-01	7.2E-03	7.2E-03	9.2E-03	9.2E-03	9.2E-03	1.4E-02
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
AS	7.4E-03	3.1E-04	3.1E-04	4.1E-04	4.1E-04	4.1E-04	6.4E-04
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CD	1.5E-03	6.5E-05	6.5E-05	8.1E-05	8.1E-05	8.2E-05	1.3E-04
	(0, 0, 99)	(0, 1, 98)	(0, 1, 98)	(0, 0, 99)	(0, 1, 98)	(0, 1, 98)	(0, 1, 99)
V	4.5E-02	2.0E-03	2.0E-03	2.7E-03	2.7E-03	2.7E-03	3.9E-03
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
CU	2.3E-01	1.0E-02	1.0E-02	1.3E-02	1.3E-02	1.3E-02	2.0E-02
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
FE	4.4E 00	2.0E-01	2.0E-01	2.6E-01	2.6E-01	2.6E-01	3.8E-01
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
AL	2.0E 01	9.6E-01	9.6E-01	1.3E 00	1.3E 00	1.3E 00	1.7E 00
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
ZN	3.0E-01	1.4E-02	1.4E-02	1.8E-02	1.8E-02	1.8E-02	2.6E-02
	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
SO2	2.9E 00	2.5E-01	2.5E-01	2.3E-01	2.4E-01	2.5E-01	2.2E-01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
H2SO4	5.8E-01	5.8E-02	5.8E-02	4.9E-02	4.9E-02	4.9E-02	3.9E-02
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	1.4E 01	1.4E 00	1.4E 00	1.2E 00	1.2E 00	1.2E 00	9.9E-01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
NOX	2.5E 01	2.3E 00	2.3E 00	2.1E 00	2.1E 00	2.2E 00	1.9E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
CO	1.4E 02	1.4E 01	1.4E 01	1.1E 01	1.2E 01	1.2E 01	9.3E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)

TABLE 20

TOTAL EMISSIONS IN GRID 383/5095
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: SILVERBOW LOCATION: BERKELEY PT

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)					
		JAN	FEB	MAR	APR	MAY	JUN
TSP	1.8E 03	1.6E 02	1.6E 02	1.3E 02	1.3E 02	1.3E 02	1.7E 02
	(14, 0, 85)	(14, 0, 85)	(14, 0, 85)	(17, 0, 82)	(17, 0, 82)	(17, 0, 82)	(13, 0, 86)
RSP	5.5E 02	4.8E 01	4.8E 01	3.9E 01	3.9E 01	3.9E 01	5.2E 01
	(13, 0, 86)	(13, 0, 86)	(13, 0, 86)	(16, 0, 83)	(16, 0, 83)	(16, 0, 83)	(12, 0, 87)
PB	1.2E 00	1.1E-01	1.1E-01	8.4E-02	8.4E-02	8.4E-02	1.2E-01
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
AS	1.7E-01	1.5E-02	1.5E-02	1.2E-02	1.2E-02	1.2E-02	1.7E-02
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CD	3.9E-02	3.3E-03	3.3E-03	2.6E-03	2.6E-03	2.6E-03	3.8E-03
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
V	3.1E-01	2.7E-02	2.7E-02	2.2E-02	2.2E-02	2.2E-02	2.9E-02
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CU	7.3E 00	6.4E-01	6.4E-01	4.8E-01	4.8E-01	4.8E-01	7.1E-01
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
FE	5.4E 01	4.7E 00	4.7E 00	3.6E 00	3.6E 00	3.6E 00	5.1E 00
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
AL	1.4E 02	1.2E 01	1.2E 01	9.3E 00	9.3E 00	9.3E 00	1.3E 01
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
ZN	5.8E 00	5.0E-01	5.0E-01	3.9E-01	3.9E-01	3.9E-01	5.6E-01
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
SO2	2.9E 02	2.4E 01	2.4E 01	2.4E 01	2.4E 01	2.4E 01	2.4E 01
	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)
HC	3.0E 02	2.5E 01	2.5E 01	2.5E 01	2.5E 01	2.5E 01	2.5E 01
	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)
NOX	3.7E 03	3.1E 02	3.1E 02	3.1E 02	3.1E 02	3.1E 02	3.1E 02
	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)
CO	8.0E 02	6.7E 01	6.7E 01	6.7E 01	6.7E 01	6.7E 01	6.7E 01
	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)

TABLE 20 (continued)

TOTAL EMISSIONS IN GRID 383/5095
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: SILVERBOW LOCATION: BERKELEY PT

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)					
		JUL	AUG	SEP	OCT	NOV	DEC
TSP	1.8E 03	1.7E 02	1.7E 02	1.5E 02	1.5E 02	1.5E 02	1.6E 02
	(14, 0, 85)	(13, 0, 86)	(13, 0, 86)	(15, 0, 84)	(15, 0, 84)	(15, 0, 84)	(14, 0, 85)
RSP	5.5E 02	5.2E 01	5.2E 01	4.6E 01	4.6E 01	4.6E 01	4.8E 01
	(13, 0, 86)	(12, 0, 87)	(12, 0, 87)	(13, 0, 86)	(13, 0, 86)	(13, 0, 86)	(13, 0, 86)
PB	1.2E 00	1.2E-01	1.2E-01	1.0E-01	1.0E-01	1.0E-01	1.1E-01
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
AS	1.7E-01	1.7E-02	1.7E-02	1.4E-02	1.4E-02	1.4E-02	1.5E-02
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CD	3.9E-02	3.8E-03	3.8E-03	3.2E-03	3.2E-03	3.2E-03	3.3E-03
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
V	3.1E-01	2.9E-02	2.9E-02	2.6E-02	2.6E-02	2.6E-02	2.7E-02
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CU	7.3E 00	7.1E-01	7.1E-01	6.1E-01	6.1E-01	6.1E-01	6.4E-01
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
FE	5.4E 01	5.1E 00	5.1E 00	4.4E 00	4.4E 00	4.4E 00	4.7E 00
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
AL	1.4E 02	1.3E 01	1.3E 01	1.1E 01	1.1E 01	1.1E 01	1.2E 01
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
ZN	5.8E 00	5.6E-01	5.6E-01	4.8E-01	4.8E-01	4.8E-01	5.0E-01
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
SO2	2.9E 02	2.4E 01	2.4E 01	2.4E 01	2.4E 01	2.4E 01	2.4E 01
	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)
HC	3.0E 02	2.5E 01	2.5E 01	2.5E 01	2.5E 01	2.5E 01	2.5E 01
	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)
NOX	3.7E 03	3.1E 02	3.1E 02	3.1E 02	3.1E 02	3.1E 02	3.1E 02
	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)
CO	8.0E 02	6.7E 01	6.7E 01	6.7E 01	6.7E 01	6.7E 01	6.7E 01
	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)

TABLE 21

TOTAL EMISSIONS IN GRID 352/5108
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: DEERLODGE LOCATION: ANACONDA

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)					
		JAN	FEB	MAR	APR	MAY	JUN
TSP	3.8E 03	2.9E 02	2.9E 02	3.3E 02	3.3E 02	3.3E 02	3.1E 02
	(68, 0, 31)	(73, 0, 26)	(73, 0, 26)	(63, 0, 36)	(63, 0, 36)	(63, 0, 36)	(68, 0, 31)
RSP	2.8E 03	2.2E 02	2.2E 02	2.4E 02	2.4E 02	2.4E 02	2.3E 02
	(84, 0, 15)	(86, 0, 13)	(86, 0, 13)	(81, 0, 18)	(81, 0, 18)	(81, 0, 18)	(84, 0, 15)
PB	1.3E 02	1.1E 01	1.1E 01	1.1E 01	1.1E 01	1.1E 01	1.1E 01
	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)
AS	2.4E 02	2.0E 01	2.0E 01	2.0E 01	2.0E 01	2.0E 01	2.0E 01
	(100, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)
CD	6.0E 00	5.0E-01	5.0E-01	5.0E-01	5.0E-01	5.0E-01	5.0E-01
	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)
V	3.1E-01	2.3E-02	2.3E-02	3.3E-02	3.3E-02	3.3E-02	2.3E-02
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CU	3.8E 02	3.2E 01	3.2E 01	3.2E 01	3.2E 01	3.2E 01	3.2E 01
	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)
FE	3.4E 01	2.1E 00	2.1E 00	3.4E 00	3.4E 00	3.4E 00	2.8E 00
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
AL	7.4E 01	4.5E 00	4.5E 00	7.3E 00	7.3E 00	7.3E 00	6.2E 00
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
ZN	1.1E 02	8.8E 00	8.8E 00	8.9E 00	8.9E 00	8.9E 00	8.8E 00
	(98, 0, 1)	(98, 0, 1)	(98, 0, 1)	(98, 0, 1)	(98, 0, 1)	(98, 0, 1)	(98, 0, 1)
SO2	2.7E 05	2.3E 04	2.3E 04	2.3E 04	2.3E 04	2.3E 04	2.3E 04
	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)
H2SO4	2.3E-01	1.6E-02	1.6E-02	2.0E-02	2.0E-02	2.0E-02	2.3E-02
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	2.9E 01	1.9E 00	1.9E 00	2.4E 00	2.4E 00	2.4E 00	2.9E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
NOX	3.2E 01	2.2E 00	2.2E 00	2.7E 00	2.7E 00	2.7E 00	3.2E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
CO	2.8E 02	1.9E 01	1.9E 01	2.3E 01	2.3E 01	2.3E 01	2.8E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)

TABLE 21 (continued)

TOTAL EMISSIONS IN GRID 352/5108
(%POINT,%APEA,%FUGITIVE DUST)

COUNTY: DEERLODGE LOCATION: ANACONDA

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)					
		JUL	AUG	SEP	OCT	NOV	DEC
TSP	3.8E 03	3.1E 02	3.1E 02	3.2E 02	3.2E 02	3.2E 02	2.9E 02
	(68, 0, 31)	(68, 0, 31)	(68, 0, 31)	(67, 0, 32)	(67, 0, 32)	(67, 0, 32)	(73, 0, 26)
RSP	2.8E 03	2.3E 02	2.3E 02	2.3E 02	2.3E 02	2.3E 02	2.2E 02
	(84, 0, 15)	(84, 0, 15)	(84, 0, 15)	(83, 0, 16)	(83, 0, 16)	(83, 0, 16)	(86, 0, 13)
PB	1.3E 02	1.1E 01	1.1E 01	1.1E 01	1.1E 01	1.1E 01	1.1E 01
	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)
AS	2.4E 02	2.0E 01	2.0E 01	2.0E 01	2.0E 01	2.0E 01	2.0E 01
	(100, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)
CD	6.0E 00	5.0E-01	5.0E-01	5.0E-01	5.0E-01	5.0E-01	5.0E-01
	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)
V	3.1E-01	2.3E-02	2.3E-02	2.5E-02	2.5E-02	2.5E-02	2.3E-02
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CU	3.8E 02	3.2E 01	3.2E 01	3.2E 01	3.2E 01	3.2E 01	3.2E 01
	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)	(99, 0, 0)
FE	3.4E 01	2.8E 00	2.8E 00	2.9E 00	2.9E 00	2.9E 00	2.1E 00
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
AL	7.4E 01	6.2E 00	6.2E 00	6.7E 00	6.7E 00	6.7E 00	4.5E 00
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
ZN	1.1E 02	8.8E 00	8.8E 00	8.8E 00	8.8E 00	8.8E 00	8.8E 00
	(98, 0, 1)	(98, 0, 1)	(98, 0, 1)	(98, 0, 1)	(98, 0, 1)	(98, 0, 1)	(98, 0, 1)
SO2	2.7E 05	2.3E 04	2.3E 04	2.3E 04	2.3E 04	2.3E 04	2.3E 04
	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)	(100, 0, 0)
H2SO4	2.3E-01	2.3E-02	2.3E-02	2.0E-02	2.0E-02	2.0E-02	1.6E-02
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	2.9E 01	2.9E 00	2.9E 00	2.4E 00	2.4E 00	2.4E 00	1.9E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
NOX	3.2E 01	3.2E 00	3.2E 00	2.7E 00	2.7E 00	2.7E 00	2.2E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
CO	2.8E 02	2.8E 01	2.8E 01	2.3E 01	2.3E 01	2.3E 01	1.9E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)

TABLE 22

TOTAL EMISSIONS IN GRID 727/5192
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: MISSOULA LOCATION: MISSOULA

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)					
		JAN	FEB	MAR	APR	MAY	JUN
TSP	9.4E 02	7.4E 01	7.4E 01	1.0E 02	1.0E 02	1.0E 02	6.3E 01
	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)	(0, 2, 97)
RSP	3.8E 02	3.0E 01	3.0E 01	4.2E 01	4.2E 01	4.2E 01	2.6E 01
	(0, 3, 96)	(0, 3, 96)	(0, 3, 96)	(0, 2, 97)	(0, 2, 97)	(0, 2, 97)	(0, 4, 95)
PB	8.5E-01	6.7E-02	6.7E-02	9.3E-02	9.3E-02	9.3E-02	5.6E-02
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
AS	2.4E-03	1.9E-04	1.9E-04	2.7E-04	2.7E-04	2.7E-04	1.6E-04
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CD	8.1E-03	6.5E-04	6.5E-04	8.9E-04	8.9E-04	8.9E-04	5.4E-04
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
V	7.8E-02	6.2E-03	6.2E-03	8.6E-03	8.6E-03	8.6E-03	5.1E-03
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
CU	4.4E-01	3.5E-02	3.5E-02	4.9E-02	4.9E-02	4.9E-02	2.9E-02
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
FE	1.9E 01	1.5E 00	1.5E 00	2.1E 00	2.1E 00	2.1E 00	1.2E 00
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
AL	4.0E 01	3.2E 00	3.2E 00	4.4E 00	4.4E 00	4.4E 00	2.6E 00
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
ZN	2.6E-01	2.1E-02	2.1E-02	2.9E-02	2.8E-02	2.8E-02	1.7E-02
	(0, 0, 99)	(0, 1, 98)	(0, 1, 98)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
SO2	1.6E 01	1.5E 00	1.3E 00	1.5E 00	1.3E 00	1.2E 00	1.3E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
H2SO4	4.2E 00	2.8E-01	2.8E-01	3.5E-01	3.5E-01	3.5E-01	4.2E-01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	1.3E 02	8.9E 00	8.9E 00	1.1E 01	1.1E 01	1.1E 01	1.3E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
NOX	1.3E 02	9.0E 00	8.9E 00	1.1E 01	1.1E 01	1.1E 01	1.3E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
CO	9.9E 02	6.6E 01	6.6E 01	8.3E 01	8.3E 01	8.3E 01	9.9E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)

TABLE 22 (continued)

TOTAL EMISSIONS IN GRID 727/5192
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: MISSOULA LOCATION: MISSOULA

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS) JUL	AUG	SEP	OCT	NOV	DEC
TSP	9.4E 02 (0, 1, 98)	6.3E 01 (0, 2, 97)	6.3E 01 (0, 2, 97)	7.1E 01 (0, 1, 98)	7.1E 01 (0, 1, 98)	7.2E 01 (0, 2, 97)	7.4E 01 (0, 1, 98)
RSP	3.8E 02 (0, 3, 96)	2.6E 01 (0, 4, 95)	2.6E 01 (0, 4, 95)	3.0E 01 (0, 3, 96)	3.0E 01 (0, 3, 96)	3.0E 01 (0, 4, 95)	3.0E 01 (0, 3, 96)
PB	8.5E-01 (0, 0, 99)	5.6E-02 (0, .0, 99)	5.6E-02 (0, 0, 99)	6.5E-02 (0, 0, 99)	6.5E-02 (0, 0, 99)	6.6E-02 (0, 0, 99)	6.7E-02 (0, 0, 99)
AS	2.4E-03 (0, 0,100)	1.6E-04 (0, 0,100)	1.6E-04 (0, 0,100)	1.9E-04 (0, 0,100)	1.9E-04 (0, 0,100)	1.9E-04 (0, 0,100)	1.9E-04 (0, 0,100)
CD	8.1E-03 (0, 0, 99)	5.4E-04 (0, 0, 99)	5.4E-04 (0, 0, 99)	6.2E-04 (0, 0, 99)	6.3E-04 (0, 0, 99)	6.3E-04 (0, 0, 99)	6.5E-04 (0, 0, 99)
V	7.8E-02 (0, 0,100)	5.1E-03 (0, 0, 99)	5.1E-03 (0, 0, 99)	6.0E-03 (0, 0, 99)	6.0E-03 (0, 0, 99)	6.0E-03 (0, 0, 99)	6.2E-03 (0, 0, 99)
CU	4.4E-01 (0, 0,100)	2.9E-02 (0, 0,100)	2.9E-02 (0, 0,100)	3.4E-02 (0, 0,100)	3.4E-02 (0, 0, 99)	3.4E-02 (0, 0, 99)	3.5E-02 (0, 0, 99)
FE	1.9E 01 (0, 0,100)	1.2E 00 (0, 0,100)	1.2E 00 (0, 0,100)	1.4E 00 (0, 0,100)	1.4E 00 (0, 0, 99)	1.4E 00 (0, 0, 99)	1.5E 00 (0, 0, 99)
AL	4.0E 01 (0, 0, 99)	2.6E 00 (0, 0,100)	2.6E 00 (0, 0,100)	3.1E 00 (0, 0,100)	3.1E 00 (0, 0, 99)	3.1E 00 (0, 0, 99)	3.2E 00 (0, 0, 99)
ZN	2.6E-01 (0, 0, 99)	1.7E-02 (0, 0,100)	1.7E-02 (0, 0,100)	2.0E-02 (0, 0,100)	2.0E-02 (0, 0, 99)	2.0E-02 (0, 1, 98)	2.1E-02 (0, 1, 98)
SO2	1.6E 01 (0,100, 0)	1.2E 00 (0,100, 0)	1.3E 00 (0,100, 0)	1.1E 00 (0,100, 0)	1.3E 00 (0,100, 0)	1.5E 00 (0,100, 0)	1.4E 00 (0,100, 0)
H2SO4	4.2E 00 (0,100, 0)	4.2E-01 (0,100, 0)	4.2E-01 (0,100, 0)	3.5E-01 (0,100, 0)	3.5E-01 (0,100, 0)	3.5E-01 (0,100, 0)	2.8E-01 (0,100, 0)
HC	1.3E 02 (0,100, 0)	1.3E 01 (0,100, 0)	1.3E 01 (0,100, 0)	1.1E 01 (0,100, 0)	1.1E 01 (0,100, 0)	1.1E 01 (0,100, 0)	8.9E 00 (0,100, 0)
NOX	1.3E 02 (0,100, 0)	1.3E 01 (0,100, 0)	1.3E 01 (0,100, 0)	1.1E 01 (0,100, 0)	1.1E 01 (0,100, 0)	1.1E 01 (0,100, 0)	9.0E 00 (0,100, 0)
CO	9.9E 02 (0,100, 0)	9.9E 01 (0,100, 0)	9.9E 01 (0,100, 0)	8.3E 01 (0,100, 0)	8.3E 01 (0,100, 0)	8.3E 01 (0,100, 0)	6.6E 01 (0,100, 0)

TABLE 23

TOTAL EMISSIONS IN GRID 728/5192
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: MISSOULA LOCATION: MISSOULA

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)					
		JAN	FEB	MAR	APR	MAY	JUN
TSP	5.2E 02	4.1E 01	4.1E 01	5.7E 01	5.7E 01	5.7E 01	3.5E 01
	(0, 1, 98)	(0, 2, 97)	(0, 2, 97)	(0, 1, 98)	(0, 0, 99)	(0, 0, 99)	(0, 1, 98)
RSP	2.1E 02	1.7E 01	1.7E 01	2.3E 01	2.3E 01	2.3E 01	1.4E 01
	(0, 3, 97)	(0, 3, 96)	(0, 3, 96)	(0, 2, 97)	(0, 1, 98)	(0, 1, 98)	(0, 3, 96)
PB	4.0E-01	3.2E-02	3.2E-02	4.5E-02	4.5E-02	4.5E-02	2.7E-02
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
AS	1.1E-03	9.0E-05	9.0E-05	1.3E-04	1.3E-04	1.3E-04	7.5E-05
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CD	5.5E-03	4.4E-04	4.4E-04	6.1E-04	6.1E-04	6.1E-04	3.7E-04
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
V	4.5E-02	3.6E-03	3.6E-03	5.0E-03	5.0E-03	5.0E-03	3.0E-03
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0, 99)
CU	4.1E-01	3.3E-02	3.3E-02	4.5E-02	4.5E-02	4.5E-02	2.7E-02
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
FE	1.0E 01	8.2E-01	8.2E-01	1.1E 00	1.1E 00	1.1E 00	6.8E-01
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
AL	2.2E 01	1.7E 00	1.7E 00	2.4E 00	2.4E 00	2.4E 00	1.4E 00
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
ZN	1.6E-01	1.3E-02	1.3E-02	1.8E-02	1.8E-02	1.8E-02	1.1E-02
	(0, 0, 99)	(0, 1, 98)	(0, 1, 98)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
SO2	7.4E 00	8.9E-01	7.1E-01	7.9E-01	5.9E-01	5.0E-01	4.5E-01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
H2SO4	2.0E 00	1.3E-01	1.3E-01	1.7E-01	1.7E-01	1.7E-01	2.0E-01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	3.4E 01	2.3E 00	2.3E 00	2.9E 00	2.9E 00	2.9E 00	3.4E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
NOX	4.6E 01	3.4E 00	3.3E 00	4.0E 00	3.8E 00	3.7E 00	4.4E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
CO	3.9E 02	2.6E 01	2.6E 01	3.3E 01	3.3E 01	3.3E 01	3.9E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)

TABLE 23 (continued)

TOTAL EMISSIONS IN GRID 728/5192
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: MISSOULA LOCATION: MISSOULA

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)					
		JUL	AUG	SEP	OCT	NOV	DEC
TSP	5.2E 02	3.5E 01	3.5E 01	3.9E 01	3.9E 01	3.9E 01	4.1E 01
	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)	(0, 2, 97)	(0, 2, 97)
RSP	2.1E 02	1.4E 01	1.4E 01	1.6E 01	1.6E 01	1.6E 01	1.7E 01
	(0, 3, 97)	(0, 3, 96)	(0, 3, 96)	(0, 2, 97)	(0, 3, 96)	(0, 4, 95)	(0, 3, 96)
PB	4.0E-01	2.7E-02	2.7E-02	3.1E-02	3.1E-02	3.1E-02	3.2E-02
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
AS	1.1E-03	7.5E-05	7.5E-05	8.8E-05	8.8E-05	8.8E-05	9.0E-05
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CD	5.5E-03	3.7E-04	3.7E-04	4.3E-04	4.3E-04	4.3E-04	4.4E-04
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
V	4.5E-02	3.0E-03	3.0E-03	3.5E-03	3.5E-03	3.5E-03	3.6E-03
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
CU	4.1E-01	2.7E-02	2.7E-02	3.2E-02	3.2E-02	3.2E-02	3.3E-02
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
FE	1.0E 01	6.8E-01	6.8E-01	7.9E-01	7.9E-01	7.9E-01	8.2E-01
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
AL	2.2E 01	1.4E 00	1.4E 00	1.7E 00	1.7E 00	1.7E 00	1.7E 00
	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
ZN	1.6E-01	1.1E-02	1.1E-02	1.3E-02	1.3E-02	1.3E-02	1.3E-02
	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 1, 98)	(0, 1, 98)
SO2	7.4E 00	3.6E-01	4.2E-01	4.5E-01	6.2E-01	8.0E-01	8.4E-01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
H2SO4	2.0E 00	2.0E-01	2.0E-01	1.7E-01	1.7E-01	1.7E-01	1.3E-01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	3.4E 01	3.4E 00	3.4E 00	2.9E 00	2.9E 00	2.9E 00	2.3E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
NOX	4.6E 01	4.3E 00	4.3E 00	3.7E 00	3.8E 00	4.0E 00	3.4E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
CO	3.9E 02	3.9E 01	3.9E 01	3.3E 01	3.3E 01	3.3E 01	2.6E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)

TABLE 24

TOTAL EMISSIONS IN GRID 72A/5195
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: MISSOULA LOCATION: MISSOULA

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)					
		JAN	FEB	MAR	APR	MAY	JUN
TSP	7.0E 02	5.5E 01	5.5E 01	7.6E 01	7.6E 01	7.6E 01	4.8E 01
	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)	(0, 2, 97)
RSP	2.8E 02	2.2E 01	2.2E 01	3.1E 01	3.1E 01	3.1E 01	1.9E 01
	(0, 3, 96)	(0, 3, 96)	(0, 3, 96)	(0, 2, 97)	(0, 2, 97)	(0, 2, 97)	(0, 4, 95)
PB	6.1E-01	4.9E-02	4.9E-02	6.8E-02	6.8E-02	6.8E-02	4.1E-02
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
AS	1.8E-03	1.4E-04	1.4E-04	2.0E-04	2.0E-04	2.0E-04	1.2E-04
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CD	6.0E-03	4.8E-04	4.8E-04	6.6E-04	6.6E-04	6.6E-04	4.0E-04
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
V	5.9E-02	4.6E-03	4.6E-03	6.4E-03	6.4E-03	6.4E-03	3.9E-03
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0, 99)
CU	3.4E-01	2.7E-02	2.7E-02	3.7E-02	3.7E-02	3.7E-02	2.2E-02
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
FE	1.4E 01	1.1E 00	1.1E 00	1.5E 00	1.5E 00	1.5E 00	9.4E-01
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
AL	3.0E 01	2.4E 00	2.4E 00	3.3E 00	3.3E 00	3.3E 00	2.0E 00
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
ZN	1.9E-01	1.5E-02	1.5E-02	2.1E-02	2.1E-02	2.1E-02	1.3E-02
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
SO2	9.7E 00	7.5E-01	7.1E-01	8.6E-01	8.0E-01	7.8E-01	8.9E-01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
H2SO4	3.1E 00	2.0E-01	2.0E-01	2.5E-01	2.5E-01	2.5E-01	3.1E-01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	1.1E 02	7.2E 00	7.2E 00	8.9E 00	8.9E 00	8.9E 00	1.1E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
NOX	9.3E 01	6.3E 00	6.3E 00	7.8E 00	7.8E 00	7.7E 00	9.2E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
CO	7.1E 02	4.8E 01	4.8E 01	6.0E 01	6.0E 01	6.0E 01	7.1E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)

TABLE 24 (continued)

TOTAL EMISSIONS IN GRID 728/5195
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: MISSOULA LOCATION: MISSOULA

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)					
		JUL	AUG	SEP	OCT	NOV	DEC
TSP	7.0E 02	4.8E 01	4.8E 01	5.3E 01	5.3E 01	5.3E 01	5.5E 01
	(0, 1, 98)	(0, 2, 97)	(0, 2, 97)	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)
RSP	2.8E 02	1.9E 01	1.9E 01	2.2E 01	2.2E 01	2.2E 01	2.2E 01
	(0, 3, 96)	(0, 4, 95)	(0, 4, 95)	(0, 3, 96)	(0, 3, 96)	(0, 3, 96)	(0, 3, 96)
PB	6.1E-01	4.1E-02	4.1E-02	4.7E-02	4.7E-02	4.7E-02	4.9E-02
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
AS	1.8E-03	1.2E-04	1.2E-04	1.4E-04	1.4E-04	1.4E-04	1.4E-04
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CD	6.0E-03	4.0E-04	4.0E-04	4.7E-04	4.7E-04	4.7E-04	4.8E-04
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
V	5.9E-02	3.9E-03	3.9E-03	4.6E-03	4.6E-03	4.6E-03	4.6E-03
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
CU	3.4E-01	2.2E-02	2.2E-02	2.6E-02	2.6E-02	2.6E-02	2.7E-02
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
FE	1.4E 01	9.4E-01	9.4E-01	1.1E 00	1.1E 00	1.1E 00	1.1E 00
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
AL	3.0E 01	2.0E 00	2.0E 00	2.3E 00	2.3E 00	2.3E 00	2.4E 00
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
ZN	1.9E-01	1.3E-02	1.3E-02	1.5E-02	1.5E-02	1.5E-02	1.5E-02
	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
SO2	9.7E 00	8.7E-01	8.9E-01	7.7E-01	8.1E-01	8.6E-01	7.3E-01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
H2SO4	3.1E 00	3.1E-01	3.1E-01	2.5E-01	2.5E-01	2.5E-01	2.0E-01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	1.1E 02	1.1E 01	1.1E 01	8.9E 00	8.9E 00	8.9E 00	7.2E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
NOX	9.3E 01	9.2E 00	9.2E 00	7.7E 00	7.8E 00	7.8E 00	6.3E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
CO	7.1E 02	7.1E 01	7.1E 01	6.0E 01	6.0E 01	6.0E 01	4.8E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)

TABLE 25

TOTAL EMISSIONS IN GRID 272/5195
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: MISSOULA LOCATION: MISSOULA

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)					
		JAN	FEB	MAR	APR	MAY	JUN
TSP	1.1E 03	9.1E 01	9.1E 01	1.3E 02	1.3E 02	1.3E 02	7.7E 01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 1, 98)
RSP	4.6E 02	3.6E 01	3.6E 01	5.1E 01	5.0E 01	5.0E 01	3.1E 01
	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)	(0, 2, 97)
PB	8.1E-01	6.4E-02	6.4E-02	9.0E-02	9.0E-02	9.0E-02	5.4E-02
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
AS	2.3E-03	1.8E-04	1.8E-04	2.5E-04	2.5E-04	2.5E-04	1.5E-04
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CD	1.3E-02	1.1E-03	1.1E-03	1.5E-03	1.5E-03	1.5E-03	8.9E-04
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
V	1.0E-01	8.2E-03	8.2E-03	1.1E-02	1.1E-02	1.1E-02	6.9E-03
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CU	1.1E 00	8.9E-02	8.9E-02	1.2E-01	1.2E-01	1.2E-01	7.3E-02
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
FE	2.3E 01	1.8E 00	1.8E 00	2.5E 00	2.5E 00	2.5E 00	1.5E 00
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
AL	4.8E 01	3.8E 00	3.8E 00	5.3E 00	5.3E 00	5.3E 00	3.2E 00
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
ZN	3.9E-01	3.1E-02	3.1E-02	4.3E-02	4.3E-02	4.3E-02	2.6E-02
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
SO2	4.7E 00	3.7E-01	3.5E-01	4.2E-01	3.9E-01	3.8E-01	4.4E-01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
H2SO4	4.0E 00	2.7E-01	2.7E-01	3.3E-01	3.3E-01	3.3E-01	4.0E-01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	5.6E 01	3.8E 00	3.8E 00	4.7E 00	4.7E 00	4.7E 00	5.6E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
NOX	6.4E 01	4.3E 00	4.3E 00	5.3E 00	5.3E 00	5.3E 00	6.3E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
CO	6.8E 02	4.5E 01	4.5E 01	5.7E 01	5.7E 01	5.7E 01	6.8E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)

TABLE 25 (continued)

TOTAL EMISSIONS IN GRID 272/5195
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: MISSOULA LOCATION: MISSOULA

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS) JUL	AUG	SEP	OCT	NOV	DEC
TSP	1.1E 03	7.7E 01	7.7E 01	8.7E 01	8.7E 01	8.7E 01	9.1E 01
	(0, 0, 99)	(0, 1, 98)	(0, 1, 98)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
RSP	4.6E 02	3.1E 01	3.1E 01	3.6E 01	3.6E 01	3.6E 01	3.6E 01
	(0, 1, 98)	(0, 2, 97)	(0, 2, 97)	(0, 1, 98)	(0, 1, 98)	(0, 2, 97)	(0, 1, 98)
PB	8.1E-01	5.4E-02	5.4E-02	6.3E-02	6.3E-02	6.3E-02	6.4E-02
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
AS	2.3E-03	1.5E-04	1.5E-04	1.8E-04	1.8E-04	1.8E-04	1.8E-04
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CD	1.3E-02	8.9E-04	8.9E-04	1.0E-03	1.0E-03	1.0E-03	1.1E-03
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
V	1.0E-01	6.9E-03	6.9E-03	8.0E-03	8.0E-03	8.0E-03	8.2E-03
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CU	1.1E 00	7.3E-02	7.3E-02	8.6E-02	8.6E-02	8.6E-02	8.9E-02
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
FE	2.3E 01	1.5E 00	1.5E 00	1.8E 00	1.8E 00	1.8E 00	1.8E 00
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
AL	4.8E 01	3.2E 00	3.2E 00	3.7E 00	3.7E 00	3.7E 00	3.8E 00
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
ZN	3.9E-01	2.6E-02	2.6E-02	3.0E-02	3.0E-02	3.0E-02	3.1E-02
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
SO2	4.7E 00	4.3E-01	4.4E-01	3.8E-01	4.0E-01	4.2E-01	3.0E-01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
H2SO4	4.0E 00	4.0E-01	4.0E-01	3.3E-01	3.3E-01	3.3E-01	2.7E-01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	5.6E 01	5.6E 00	5.6E 00	4.7E 00	4.7E 00	4.7E 00	3.8E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
NOX	6.4E 01	6.3E 00	6.3E 00	5.3E 00	5.3E 00	5.3E 00	4.3E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
CO	6.8E 02	6.8E 01	6.8E 01	5.7E 01	5.7E 01	5.7E 01	4.5E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)

TABLE 26

TOTAL EMISSIONS IN GRID 693/5074
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: YELLOWSTONE LOCATION: BILLINGS

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)					
		JAN	FEB	MAR	APR	MAY	JUN
TSP	1.4E 03	1.1E 02	1.1E 02	1.7E 02	1.7E 02	1.7E 02	7.6E 01
	(0, 1, 98)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 2, 98)
RSP	5.5E 02	4.7E 01	4.7E 01	6.9E 01	6.9E 01	6.9E 01	3.1E 01
	(0, 2, 97)	(0, 2, 97)	(0, 2, 97)	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)	(0, 4, 95)
PB	1.6E 00	1.3E-01	1.3E-01	1.9E-01	1.9E-01	1.9E-01	8.7E-02
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
AS	3.4E-03	2.9E-04	2.9E-04	4.2E-04	4.2E-04	4.2E-04	1.9E-04
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CD	5.3E-03	4.4E-04	4.4E-04	6.5E-04	6.5E-04	6.5E-04	3.0E-04
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 1, 98)
V	1.6E-01	1.3E-02	1.3E-02	2.0E-02	2.0E-02	2.0E-02	9.1E-03
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)
CU	2.2E-01	1.8E-02	1.8E-02	2.7E-02	2.7E-02	2.7E-02	1.2E-02
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
FE	4.1E 01	3.5E 00	3.5E 00	5.1E 00	5.1E 00	5.1E 00	2.3E 00
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
AL	7.8E 01	6.6E 00	6.6E 00	9.6E 00	9.6E 00	9.6E 00	4.3E 00
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
ZN	2.5E-01	2.1E-02	2.1E-02	3.1E-02	3.1E-02	3.1E-02	1.4E-02
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)
SO2	1.3E 01	9.1E-01	9.0E-01	1.1E 00	1.1E 00	1.1E 00	1.3E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
H2SO4	4.6E 00	3.1E-01	3.1E-01	3.9E-01	3.9E-01	3.9E-01	4.6E-01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	1.3E 02	8.8E 00	8.8E 00	1.1E 01	1.1E 01	1.1E 01	1.3E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
NOX	1.4E 02	9.5E 00	9.5E 00	1.2E 01	1.2E 01	1.2E 01	1.4E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
CO	1.1E 03	7.3E 01	7.3E 01	9.2E 01	9.2E 01	9.2E 01	1.1E 02
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)

TABLE 26 (continued)

TOTAL EMISSIONS IN GRID 693/5074
(%POINT,%AREA,%FUGITIVE DUST)

COUNTY: YELLOWSTONE LOCATION: BILLINGS

POLLUTANT	ANNUAL EMISSIONS (TONS)	MONTHLY EMISSIONS (TONS)					
		JUL	AUG	SEP	OCT	NOV	DEC
TSP	1.4E 03	7.6E 01	7.6E 01	9.4E 01	9.4E 01	9.4E 01	1.1E 02
	(0, 1, 98)	(0, 2, 98)	(0, 2, 98)	(0, 1, 98)	(0, 1, 98)	(0, 1, 98)	(0, 0, 99)
RSP	5.5E 02	3.1E 01	3.1E 01	3.8E 01	3.8E 01	3.8E 01	4.7E 01
	(0, 2, 97)	(0, 4, 95)	(0, 4, 95)	(0, 3, 96)	(0, 3, 96)	(0, 3, 96)	(0, 2, 97)
PB	1.6E 00	8.7E-02	8.7E-02	1.1E-01	1.1E-01	1.1E-01	1.3E-01
	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
AS	3.4E-03	1.9E-04	1.9E-04	2.3E-04	2.3E-04	2.3E-04	2.9E-04
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CD	5.3E-03	3.0E-04	3.0E-04	3.6E-04	3.6E-04	3.6E-04	4.4E-04
	(0, 0, 99)	(0, 1, 98)	(0, 1, 98)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
V	1.6E-01	9.1E-03	9.1E-03	1.1E-02	1.1E-02	1.1E-02	1.3E-02
	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
CU	2.2E-01	1.2E-02	1.2E-02	1.5E-02	1.5E-02	1.5E-02	1.8E-02
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)
FE	4.1E 01	2.3E 00	2.3E 00	2.8E 00	2.8E 00	2.8E 00	3.5E 00
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)
AL	7.8E 01	4.3E 00	4.3E 00	5.4E 00	5.4E 00	5.4E 00	6.6E 00
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0,100)
ZN	2.5E-01	1.4E-02	1.4E-02	1.7E-02	1.7E-02	1.7E-02	2.1E-02
	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0,100)	(0, 0, 99)	(0, 0, 99)	(0, 0, 99)
SO2	1.3E 01	1.3E 00	1.3E 00	1.1E 00	1.1E 00	1.1E 00	9.0E-01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
H2SO4	4.6E 00	4.6E-01	4.6E-01	3.9E-01	3.9E-01	3.9E-01	3.1E-01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
HC	1.3E 02	1.3E 01	1.3E 01	1.1E 01	1.1E 01	1.1E 01	8.8E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
NOX	1.4E 02	1.4E 01	1.4E 01	1.2E 01	1.2E 01	1.2E 01	9.5E 00
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)
CO	1.1E 03	1.1E 02	1.1E 02	9.2E 01	9.2E 01	9.2E 01	7.3E 01
	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)	(0,100, 0)

REFERENCES

1. Sartor, J. D., and G. B. Boyd. Water Pollution Aspects of Street Surface Contaminants. EPA-R2-72-081, U.S. Environmental Protection Agency, Washington D.C., November 1972.

2. National Oceanic and Atmospheric Administration. Climatological Data - Montana. National Climatic Center, Asheville, North Carolina, 1976 and 1977.

3. Cowherd, C., Jr., R. Bohn, and T. Cuscino. Iron and Steel Plant Open Source Fugitive Emission Evaluation. Final Report, Midwest Research Institute for U.S. Environmental Protection Agency, Publication No. EPA-600/2-79-103, May 1979.

4. Communication with David Kneebone, Anaconda Company-Berkeley Pit, September 6, 1978.

5. Cuscino, T. A., Jr. Taconite Mining Fugitive Emissions Study - Final Report (in preparation). MRI Project No. 4523-L(1). Minnesota Pollution Control Agency, Roseville, Minnesota, October 12, 1978.

6. Schrag, M. P. Fine Particle Emissions Information System Reference Manual. EPA-600/8-78-007. U.S. Environmental Protection Agency, Research Triangle Park, North Carolina, June 1978. 101 pp.

7. Maxwell, C., et al. Development of Hatrems Data Base and Emission Inventory Evaluation. EPA-450/3-77-011. U.S. Environmental Protection Agency, Research Triangle Park, April 1977. 215 pp.

8. Otis, T., et al. Wood Burning and Particulate Air Pollution in the Missoula Valley. Missoula City-County Health Department, Missoula, Montana, August 1977. 27 pp.

9. Radke, L. F., et al. Airborne Studies of Particles and Gases From Forest Fires. J. Air Poll. Cont. Assoc., January 1978. pp. 30-34.

10. Census of Population and Housing. Detailed Housing Characteristics - 1970 Data. U.S. Department of Commerce.

11. Ackerson, P. J., et al. Guide for Compiling a Comprehensive Emission Inventory. APTD-1135. U.S. Environmental Protection Agency, Research Triangle Park, North Carolina, March 1973.

12. Communication with James W. Hahn, State of Montana - Department of Highways, October 10, 1978.

13. Urban Transportation Plan - Butte, Montana. Montana Department of Highways Planning Research Bureau in cooperation with Federal Highway Administration.

14. 1972 Census of Retail Trade. Vol. 2. U.S. Department of Commerce.

15. Airport Activity Statistics of Certificated Route Air Carriers. Federal Aviation Administration, Washington, D.C., December 31, 1977. 309 pp.

16. 1977 Slash Burning Log. Montana Air Quality Bureau, Helena, Montana.

17. Communication between John C. Spindler and Robert Raisch. Source Extent Data for the Berkeley Pit, June 28, 1978.

APPENDIX A

DEGREE OF EFFORT

A. Degree of Effort

Concentrated - An extensive effort will be involved in determining "best available emission factors." This shall include an extensive literature search, consultation with local experts, and adjustments for local conditions. An extensive effort will also be required for accurate source extent data.

Major - An effort will be made to determine "best available emission factors" through a moderate literature search, consultation with local experts, and a moderate degree of local adjustment. A good effort will be made to determine accurate source extent data.

Moderate - National or regional emission factors will be sufficient with only a minimal effort devoted to emission factor localization and then only when it can be done without any significant monetary or manpower expenditure. Moderate effort will be devoted to determining source extent data.

Minor - Commonly used national or regional emission factors will be sufficient. A minor effort will be necessary in determining source extent data.

B. Silver Bow County

Pollutant or Source Category	Degree of Effort
1. Respirable particulate	Concentrated
2. Metals (Pb, As, Cd, V, Cu)	Concentrated
3. TSP	Major
4. Federal criteria pollutants excluding carbon monoxide	Major
5. Other Group B and C metals	Minor
6. All Group D sulphur compounds	Minor
7. Carbon monoxide	Minor
8. Copper mining and ore processing	Concentrated
9. Paved roadway fugitive emissions	Concentrated
10. Unpaved roadway fugitive emissions	Concentrated
11. Barren ground fugitive emissions	Moderate
12. Elemental phosphorus production	Moderate
13. Asphalt batching	Moderate
14. Other fugitive emissions	Moderate
15. Other sources	Minor

C. Deer Lodge County

Pollutant or Source Category	Degree of Effort
1. Respirable particulate	Concentrated
2. Metals (Pb, As, Cd, V, Cu)	Concentrated
3. TSP	Major
4. All Group D sulphur compounds	Major
5. Federal criteria pollutants excluding carbon monoxide	Major
6. Carbon monoxide	Minor
7. Other Group B and C metals	Minor
8. Copper smelting	Concentrated
9. Paved roadway fugitive emissions	Major
10. Unpaved roadway fugitive emissions	Major
11. Tailings pond fugitive emissions	Major
12. Barren ground fugitive emissions	Major
13. All other fugitive emissions sources	Moderate
14. All other sources	Minor

D. Missoula County

1. Respirable particulate	Concentrated
2. TSP	Major
3. Sulphates	Major
4. Federal criteria pollutants excluding carbon monoxide	Major
5. Other Group D sulphur compounds	Moderate
6. Metals	Minor (limit to one metal)
7. Carbon monoxide	Minor
8. Wood products industries	Major
9. Paved roadway fugitive emissions	Concentrated
10. Unpaved roadway fugitive emissions	Concentrated
11. Fireplace wood burning	Major
12. Slash burning	Major
13. Other fugitive emissions	Moderate
14. All other sources	Minor

E. Yellowstone County

1. Respirable particulate	Concentrated
2. TSP	Major
3. Sulphates	Major
4. Federal criteria pollutants excluding carbon monoxide	Major
5. Other Group D sulphur compounds	Moderate

Pollutant or Source Category	Degree of Effort
6. Metals	Minor (limited to one metal)
7. Carbon monoxide	Minor
8. Paved roadway fugitive emissions	Concentrated
9. Unpaved roadway fugitive emissions	Concentrated
10. Oil refining	Major
11. Sugar refining, electrical generation, and elemental sulphur production	Moderate
12. Other fugitive emissions	Moderate
13. Other sources	Minor

APPENDIX B

METALS ANALYSIS OF SILT SIZED SAMPLES

NITRIC ACID EXTRACTABLE

Approximately 1 g soil (weighed to 0.0001 g) was put in a Phillips beaker and 3 ml distilled concentrated nitric acid were added. The beakers were covered with parafilm and allowed to sit overnight (approximately 16 hr). Then 15 ml distilled water were added and the samples were put into an ultrasonic bath for a minimum of 15 min. The samples were then boiled on a hot plate for 30 min, cooled, filtered through glass wool and made up to 50 ml total volume with water, resulting in a final acid concentration of 6% HNO_3. Standards were prepared for each element in 6% HNO_3 and the samples were run by atomic absorption using flames. For many of these samples dilutions were made to get the metals concentrations in the range of the analytical procedure. The dilutions and original weight were used in calculating the concentration in the soil.

Upon completion of nitric acid extractable metals analysis a comparison was made of National Bureau of Standards (NBS) coal fly ash values supplied by NBS and the values obtained by nitric acid extraction. This showed that not all of the metals are extracted by the nitric acid procedure. Since the samples are of a different nature than the coal fly ash, a total digestion using HF was planned on a few of the samples. It was decided there are three main categories of samples: (a) pit, (b) slag, and (c) street dirt. One sample from each of these categories was used along with a duplicate, a standard solution and the NBS coal fly ash. The values obtained by the total digestion were corrected using the percent recovery of the standard solution. The results for NBS coal fly ash were again compared to the values supplied by NBS and found in most cases to be within the range supplied by NBS. The results show that the percent recovery by the nitric acid varies with the type of sample and with the element of interest.

TOTAL DIGESTION

Approximately 0.1 g soil (weighed to 0.0001 g) was placed in a teflon beaker. Fifteen milliliter hydrofluoric acid were added via a plastic pipette. The samples were allowed to sit for approximately 1 hr and then placed in a heated sand bath and evaporated to dryness (approximately 15 hr). The residue was brought up in 3 ml HNO_3 and evaporated to dryness. Five milliliter HF were added and evaporated to dryness, and the residue was dissolved in 3 ml HNO_3. Fifteen milliliter H_2O were added and allowed to sit overnight (15 hr). The resulting solution was made up to 50 ml total volume and analyzed by atomic absorption by the same procedure as in nitric acid extractable.

A solution containing standards was digested by the same procedure as the samples and compared with an identical undigested solution to determine percent loss or enhancement.

NITRIC ACID EXTRACTABLE

Approximately 1 g soil (weighed to 0.0001 g) was put in a Phillips beaker and 3 ml distilled concentrated nitric acid were added. The beakers were covered with parafilm and allowed to sit overnight (approximately 16 hr). Then 15 ml distilled water were added and the samples were put into an ultrasonic bath for a minimum of 15 min. The samples were then boiled on a hot plate for 30 min, cooled, filtered through glass wool and made up to 50 ml total volume with water, resulting in a final acid concentration of 6% HNO_3. Standards were prepared for each element in 6% HNO_3 and the samples were run by atomic absorption using flames. For many of these samples dilutions were made to get the metals concentrations in the range of the analytical procedure. The dilutions and original weight were used in calculating the concentration in the soil.

Upon completion of nitric acid extractable metals analysis a comparison was made of National Bureau of Standards (NBS) coal fly ash values supplied by NBS and the values obtained by nitric acid extraction. This showed that not all of the metals are extracted by the nitric acid procedure. Since the samples are of a different nature than the coal fly ash, a total digestion using HF was planned on a few of the samples. It was decided there are three main categories of samples: (a) pit, (b) slag, and (c) street dirt. One sample from each of these categories was used along with a duplicate, a standard solution and the NBS coal fly ash. The values obtained by the total digestion were corrected using the percent recovery of the standard solution. The results for NBS coal fly ash were again compared to the values supplied by NBS and found in most cases to be within the range supplied by NBS. The results show that the percent recovery by the nitric acid varies with the type of sample and with the element of interest.

TOTAL DIGESTION

Approximately 0.1 g soil (weighed to 0.0001 g) was placed in a teflon beaker. Fifteen milliliter hydrofluoric acid were added via a plastic pipette. The samples were allowed to sit for approximately 1 hr and then placed in a heated sand bath and evaporated to dryness (approximately 15 hr). The residue was brought up in 3 ml HNO_3 and evaporated to dryness. Five milliliter HF were added and evaporated to dryness, and the residue was dissolved in 3 ml HNO_3. Fifteen milliliter H_2O were added and allowed to sit overnight (15 hr). The resulting solution was made up to 50 ml total volume and analyzed by atomic absorption by the same procedure as in nitric acid extractable.

A solution containing standards was digested by the same procedure as the samples and compared with an identical undigested solution to determine percent loss or enhancement.